Kiracofe, Brandon (DEQ)

From:

Kiracofe, Brandon (DEQ)

Sent:

Thursday, November 13, 2014 4:06 PM

To:

'ibiqqs46@yahoo.com'

Subject:

Lexington-Rockbridge Regional WQCF, VPDES Permit No. VA0088161

Ms. Biggs,

Your application has been reviewed and appears to be complete. The next steps involve holding a public informational meeting regarding the new land application sites and assembling the information necessary to draft the permit. Once the draft permit is prepared and the appropriate reviews are performed, I will transmit the draft permit and supporting documentation to you for review. I expect to have this draft permit package to you within the next 45 days.

The Department of Environmental Quality strives to complete the permitting process in a timely manner. If you have any questions about our procedures or the status of your draft permit, please do not hesitate to contact us.

Sincerely, Brandon Kiracofe

Brandon D. Kiracofe
Water Permits & Compliance Manager
DEQ - Valley Regional Office
4411 Early Road, Harrisonburg, VA
Harrisonburg, VA 22801
Office: (540) 574, 7892, EAX: (640) 574, 7892

Office: (540) 574-7892 FAX: (540) 574-7878

brandon.kiracofe@deq.virginia.gov

Web: www.deq.virginia.gov

Mail: P.O. Box 3000, Harrisonburg, VA 22801

Carver, Beverley (DEQ)

From:

Carver, Beverley (DEQ)

Sent: To: Friday, August 15, 2014 10:17 AM Joan Biggs (jbiggs46@yahoo.com)

Cc:

Showman, Keith (DEQ)

Subject:

Permit Application - Lexington Rockbridge Regional WQCF - VA0088161

Hi Joan,

As you know, the permit application was due on August 4, 2014. You submitted the application early on July 3, 2014. Thank you! I know you and Keith have been diligently working on the biosolids portion of the application and that there is still information which must be submitted. I will continue working on the parts of the draft permit which are not related to the biosolids section. Once all the biosolids information is submitted, then I will send you an application complete letter. Just keep focusing on getting the needed information to Keith is all you need to worry about.

If you have any questions, let me know.

Bev

Beverley W. Carver
Water Permit Writer Senior
Department of Environmental Quality
Valley Regional Office
4411 Early Road, Harrisonburg, VA
Phone: (540) 574-7805 FAX: (540)574-7878
email: Beverley.Carver@deq.virginia.gov

web: www.deq.virginia.gov

Mail: P.O. Box 3000, Harrisonburg, VA 22801

MEMORANDUM

DEPARTMENT OF ENVIRONMENTAL QUALITY

VALLEY REGIONAL OFFICE

4411 Early Road - P.O. Box 3000

Harrisonburg, VA 22801

SUBJECT:

Application Errata for VPDES Permit No. VA0088161 Lexington-Rockbridge Regional

WQCF, Rockbridge County

TO:

PP File

FROM:

Bev Carver

DATE:

July 3, 2014

All application requirements related to biosolids will be reviewed separately by Keith Showman. This review was limited to all application requirements other than the biosolids requirements.

The following deficiencies were noted in the subject permit reissuance application:

EPA Form 2A:

- Part A.12. The Outfall number is 001.
- Part D. Expanded Effluent Testing Data Three scans for all of the parameters listed in Part D
 have been previously submitted, reviewed and are in the DEQ files. A summary of the data will
 be presented in the 2014 Fact Sheet.

Application Addendum: No deficiencies found.

No Exposure Certification Form: No deficiencies found.

Annual Permit Maintenance Fee Form: An email will be sent to Joan Biggs to submit this form.

The deficiencies noted are insignificant and will not affect the preparation of a legally and technically defensible draft permit.

Reviewer Concurrence: May 7-7-/4



July 2, 2014

DEQ VALLEY

JUL 03 2014

To:_______BWC

Ms. Beverley W. Carver
Environmental Engineer Senior
Virginia Department of Environmental Quality
PO Box 3000
Harrisonburg, VA 22801

Re: VA0088161 Permit Renewal NPDES Form 2A

Dear Bev,

The following completed documents are enclosed for our permit renewal:

- NPDES Form 2A
- Attachments to Form 2A
- VPDES Permit Application Addendum
- Public Notice Billing Information
- Virginia DEQ No Exposure Certification

If you have any questions, please call.

Yours truly,

Jøan H. Biggs Lab Specialist

Enclosures

Form 2A Attachments

Item B2 (p 7)

- Attachment I, p1 Topo map
- Attachment I, p2 Aerial map
- Attachment I, p3 Piping
- Attachment I, p4 Vicinity map

Item B3 (p7)

- Attachment II, p1 Liquid process
- Attachment II, p1A Liquid upgrade
- Attachment II, p2 Solids process
- Attachment II, p2A Solids upgrade

DEC	VALLEY
JU <u>L</u> Το:	03 2014
Date:	

VPDES Permit Application Addendum

1.	Entity to whom the permit is to be issued: Maury Service Authority
	Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.
2	Is this facility located within city or town boundaries? YES NO
	Include a topographic map identifying the location of the facility, the property boundaries, and the discharge point.
3.	What is the tax map parcel number for the land where this facility is located? 76B-1-1 76B-2-A,B
4.	For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities? No planned construction
5	ALL FACILITIES: What is the design average flow of this facility? 3.0 MGD
٥.	Industrial facilities: What is the maximum 30-day avg. production level (include units)? NA
	In addition to the above design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? YES NO
	If "Yes", please specify the other flow tiers (in MGD) or production levels: 6.0
	Please consider: Is your facility's design flow considerably greater than your current flow? Do you plan to expand operations during the next five years?
6.	Nature of operations generating wastewater: Residences, schools, food operations, motels, laundries, microbrewery; domestic wastewater composition
	>99% of flow from domestic connections/sources Number of private residences to be served by the wastewater treatment facilities: ☐ 0 ☐ 1-49 ☑ 50 or more
	<1 % of flow from non-domestic connections/sources
7.	Mode of discharge: ✓ Continuous ☐ Intermittent ☐ Seasonal Describe frequency and duration of intermittent or seasonal discharges:
8.	Identify the characteristics of the receiving stream at the point just above the facility's discharge point:
	Permanent stream, never dry
	Intermittent stream, usually flowing, sometimes dry DEQ VALLEY
	☐ Ephemeral stream, wet-weather flow, often dry ☐ Effluent-dependent stream, usually or always dry
	Lake or pond at or below the discharge point UL 0 3 2014
	Other:
	Data
9	
	The Department of Environmental Quality (DEQ) may deliver permits, certifications and plan approvals to recipients, including applicants or permittees, by electronically certified mail where the recipients
	notify DEQ of their consent to receive mail electronically (§ 10.1-1183). Check only one of the following to consent to or decline receipt of electronic mail from DEQ as follows:
	Applicant or permittee agrees to receive by electronic mail the permit and any plan approvals associated with the permit that may be issued for the proposed pollutant management activity, and to certify receipt of such electronic mail when requested by the DEQ. Please provide email: rallen@lexingtonva.gov
_	Applicant or permittee declines to receive by electronic mail the permit and any plan approvals

Disclaimer

This is an updated PDF document that allows you to type your information directly into the form and to save the completed form. This form is the most updated form currently available.

Note: This form can be viewed and saved only using Adobe Acrobat Reader version 7.0 or higher, or if you have the full Adobe Professional version.

Instructions:

- 1. Type in your information
- 2. Save file (if desired)
- 3. Print the completed form
- 4. Sign and date the printed copy
- 5. Mail it to the directed contact.

DEQ VALLEY

JUL 03 2014

To:		
Date: _	 	

Lexington-Rockbridge Regional WQCF - VA0088161

FORM 2A

NPDES

NPDES FORM 2A APPLICATION OVERVIEW

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SiUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SiUs are defined as:
 - All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL ARPLICANTS MUST COMPLETE PART C (CERTIFICATION):

Lexington-Rockbridge Regional WQCF - VA0088161

BASIC APPLICATION INFORMATION

PAR	TA BASIC APPL	ICATION INFO	DRMATION FOR ALL	APPLICANTS:		
All tr	eatment works mus	t complete ques	ions A.1 through A.8 of	this Basic Application	Information packe	
A.1.	Facility Information	1.				
	Facility name	Lexington-Roc	kbridge Regional Wate	er Quality Control Eac	ility (WQCF)	
	Mailing Address	PO Box 922 Lexington, VA	24450	<u></u>		
	Contact person	Richard L. Alle	en			
	Title	Director of Uti	ities Processing Depa	rtment		
	Telephone number	(540) 463-356	6			
	Facility Address (not P.O. Box)	135 Bob Akins Lexington, VA				
A.2.	Applicant Informat	ion. If the applica	int is different from the ab	ove, provide the followin	g:	
	Applicant name	Maury Service	Authority			
	Mailing Address	PO Box 785 Lexingtn, VA				
	Contact person	Richard L. Alle	en			
	Title	Director of Uti	lities Processing Depa	rtment, City of Lexing	ton	
	Telephone number	(540) 463-356	6			
	is the applicant the	e owner of opera	tor (or both) of the treat	ment works?		
•	owner		operator			
	Indicate whether co	rrespondence reg	arding this permit should	be directed to the facility	or the applicant.	
	facility		applicant			
A.3.	Existing Environments (include state		rovide the permit number	of any existing environm	nental permits that h	ave been issued to the treatment
	NPDES VA0088	161		PSD		
	uic			Other	VAN040068	
	RCRA	· · · · · · · · · · · · · · · · · · ·		Other		
A.4 .	Collection System each entity and, if ketc.).	i Information. Pri nown, provide info	ovide information on mun ormation on the type of co	icipalities and areas sen illection system (combin	ved by the facility. P ed vs. separate) and	rovide the name and population of lits ownership (municipal, private,
	Name		Population Served	Type of Collect	ion System	Ownership
	Lexington City		7200	<u>Separate</u>		Municipal
	Rockbridge Cour	ıtv	2409	Separate	·	Municipal
		 .			<u>-</u>	
	Total p	opulation served	9609	·		<u> </u>

Form Approved 1/14/99 OMB Number 2040-0086

A.5. Indian Country. a. Is the treatment works located in Indian Country? b. Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flows through) Indian Country? Yes A.6. Flow. Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years. Each years data must be based on a 12-month time period with the 12th month of "this year" occurring no more than three months prior to this application submittal. 3.0 mgd Design flow rate ___ Two Years Ago .974 6/2012-5/2013 _.993 6/2013-5/2014 mgd 1.034 6/2011-5/2012 b. Annual average daily flow rate c. Maximum daily flow rate 3.445-A.7. Collection System. Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the percent contribution (by miles) of each. Separate sanitary sewer Combined storm and sanitary sewer A.8. Discharges and Other Disposal Methods. a. Does the treatment works discharge effluent to waters of the U.S.? If yes, list how many of each of the following types of discharge points the treatment works uses: Discharges of treated effluent Discharges of untreated or partially treated effluent Combined sewer overflow points Constructed emergency overflows (prior to the headworks) Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.? If yes, provide the following for each surface impoundment: Location: Annual average daily volume discharged to surface impoundment(s) __ intermittent? Is discharge continuous or Does the treatment works land-apply treated wastewater? If yes, provide the following for each land application site: Location: Number of acres: Annual average daily volume applied to site: __ continuous or intermittent? Is land application d. Does the treatment works discharge or transport treated or untreated wastewater to another treatment works?

FACILITY NAME AND PERMIT NUMBER:

Lexington-Rockbridge Regional WQCF - VA0088161

Form Approved 1/14/99 FACILITY NAME AND PERMIT NUMBER: OMB Number 2040-0086 Lexington-Rockbridge Regional WQCF - VA0088161 If yes, describe the mean(s) by which the wastewater from the treatment works is discharged or transported to the other treatment works (e.g., tank truck, pipe). NA If transport is by a party other than the applicant, provide: Transporter name: Mailing Address: Contact person: Title: Telephone number. For each treatment works that receives this discharge, provide the following: Name: Mailing Address: Contact person: Title: Telephone number: If known, provide the NPDES permit number of the treatment works that receives this discharge. NA mgd Provide the average daily flow rate from the treatment works into the receiving facility. Does the treatment works discharge or dispose of its wastewater in a manner not included in A.8.a through A.8.d above (e.g., underground percolation, well injection)? If yes, provide the following for each disposal method: Description of method (including location and size of site(s) if applicable):

____continuous or

intermittent?

Annual daily volume disposed of by this method:

Is disposal through this method

FACILITY NAME AND PERMIT NUMBER:
Lexington-Rockbridge Regional WQCF - VA0088161

Form Approved 1/14/99 OMB Number 2040-0086

WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question. A.8.a. go to Part'B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

	a.	Outfall number				
1		Odujan Liguilpei	001	<u> </u>		
	b.	Location	NA			
			(City or town, if applicable) Rockbridge			(Zip Code) VA
			(County) N 37 47 24	72 ·		(State) W 79 25 1.5
			(Latitude)			(Longitude)
•	C.	Distance from shore	(if applicable)	NA	ft.	
į	đ.	Depth below surface	(if applicable)	NA	ft.	
•	e,	Average daily flow ra	ate	1.0	mgd	
1	f.	Does this outfall hav periodic discharge?	e either an intermittent or a	Yes	✓	No (go to A.9.g.)
		If yes, provide the fo	llowing information:			
		Number of times per	year discharge occurs:			ŅA
		Average duration of	each discharge:			NA
		Average flow per dis	charge:			NA mgd
		Months in which disc				NA NA
9	g.	ls outfall equipped w	ith a diffuser?	Yes	✓	No
.10. 1	De	scription of Receivin	ng Waters.			
- 6	а.	Name of receiving w	ater <u>Maury River</u>			·
ı	b.	Name of watershed	(if known)	Middle Maury River/Mill C	reek	
		United States Soil Co	onservation Service 14-digit water	shed code (if known):		
. (C	Name of State Mana	gement/River Basin (if known):	<u>Upper Jam</u>	es	
		United States Geolog	gical Survey 8-digit hydrologic cat	aloging unit code (if known)	;	
,	d	Critical low flow of re	ceiving stream (if applicable):			
•	u.	acute		chronic	С	fs
	e.		ceiving stream at critical low flow (-	
·		. sai naransoo on o	to the later of the second sec	арриодою јОТК		g. 5. 5a65g
				•		

BIOCHEMICAL OXYGEN | BOD-5 CBOD-5 DEMAND (Report one) UV-Reported e. coli Colilert mon/C ml 12 20.4 84.2 ecoli mpn/C ml FECAL COLIFORM 2540 D 1997 9 2.0 maL mgL TOTAL SUSPENDED SOLIDS (TSS)

END OF PART A.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM **2A YOU MUST COMPLETE**

Lexington-Rockbridge Regional WQCF - VA0088161

Form Approved 1/14/99 OMB Number 2040-0086

BASIC APPLICATION INFORMATION

PAR	T E	ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).
All a	plic	ants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification):
B.1.	Inf	flow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration. 100,000 gpd
	Ėri	efly explain any steps underway or planned to minimize inflow and infiltration.
	<u>M</u>	onitoring and identifying areas that contribute most to inflow/infiltration and replacing older lines.
8.2.	Th	pographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries, is map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show entire area.)
	á.	The area surrounding the treatment plant, including all unit processes.
	b.	The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
	Ç,	Each well where wastewater from the treatment plant is injected underground.
	d.	Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
	e.	Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
	f,	If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.
	bac chic	cess Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all kup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., prination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily prates between treatment units. Include a brief narrative description of the diagram.
B.4.	Оря	eration/Maintenance Performed by Contractor(s).
		any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a tractor?Yes
		s, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional es if necessary).
	Nar	ne: NA
	Mai	ling Address:
	Tel	ephone Number:
	Res	sponsibilities of Contractor:
	uno trea	ieduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or completed plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question for each. (If none, go to question B.6.)
	a.	List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule. NA
	b.	Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.
		YesNo

Form Approved 1/14/99 **FACILITY NAME AND PERMIT NUMBER:** OMB Number 2040-0086 Lexington-Rockbridge Regional WQCF - VA0088161 If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable). Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible. **Actual Completion** Schedule Implementation Stage MM / DD / YYYY MM/DD/YYYY Begin construction - End construction - Begin discharge - Attain operational level Have appropriate permits/clearances concerning other Federal/State requirements been obtained? No Yes Describe briefly: B.6. EFFLUENT TESTING DATA (GREATER THAN O.1 MGD ONLY). Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old. Outfall Number 001 AVERAGE DAILY DISCHARGE MAXIMUM DAILY POLLUTANT DISCHARGE Units Number of ANALYTICAL ML / MDL Units Conc. METHOD Samples CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS. AMMONIA (as N) 350.1 (1993) 0 mgl .1 mgL mgL CHLORINE (TOTAL NA RESIDUAL, TRC) DISSOLVED OXYGEN 4500-O-G 2001 11.3 9.8 mgL 30 mgL TOTAL KJELDAHL 4 351.2 1993 50 mgL .91 mgL 1.1 maL NITROGEN (TKN) NITRATE PLUS NITRITE 4100 B 2000 .20 mgL 4 3.6 mgL 3.2 mgL. NITROGEN OIL and GREASE ND EPA 1664 Rev A 5.0 mgL NĎ mgL mgL

END OF PART B.

mgL

mgL

.07

372

mgL

mgL

4

4500-P BE 1999

2540 1997

.05 mgL

10 mgL

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

80.

372

PHOSPHORUS (Total)

TOTAL DISSOLVED

SOLIDS (TDS)

OTHER

FACILITY NAME AND PERMIT NUMBER:		Form Approved 1/14/99 OMB Number 2040-0086
Lexington-Rockbridge Regional WQCF - VA0088161		Ong ramaga are erre
BASIC APPLICATION INFORMATION		
PART C. CERTIFICATION		
applicants must complete all applicable sections of Form 2A a	is explained in the A on statement, applica	rmine who is an officer for the purposes of this certification. All pplication Overview. Indicate below which parts of Form 2A you ants confirm that they have reviewed Form 2A and have completed.
Indicate which parts of Form 2A you have completed and	are submitting:	
✓ Basic Application Information packet Supple	emental Application	Information packet:
<u> </u>	_ Part D (Expanded	l Effluent Testing Data)
_ ✓	_ Part E (Toxicity T	esting: Biomonitoring Data)
	_ Part F (Industrial	User Discharges and RCRA/CERCLA Wastes)
	_ Part G (Combiner	d Sewer Systems)
ALL APPLICANTS MUST COMPLETE THE FOLLOWING C	ERTIFICATION.	
I certify under penalty of law that this document and all attachr designed to assure that qualified personnel properly gather an	ments were prepared and evaluate the information the information	d under my direction or supervision in accordance with a system nation submitted. Based on my inquiry of the person or persons
Name and official title Richard L. Allen, Director, Utilitie	s Processing Dep	artment
Signature Richard d.	4ll-	· · · · · · · · · · · · · · · · · · ·
Telephone number (540) 463-3566		<u> </u>
Date signed 7-1-14		
Upon request of the permitting authority, you must submit any works or identify appropriate permitting requirements.	other information ne	ecessary to assess wastewater treatment practices at the treatment

SEND COMPLETED FORMS TO:

Lexington-Rockbridge Regional WQCF - VA0088161

SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

POLLUTANT		MAXIMU DISCI	IM DAIL HARGE	Y	, A	/ERAGI	DAILY	DISCH	ARGE		
	Conc	Units.	Mass	. ⊍nits⊤	Conc.	Units	Mass	(Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
METALS (TOTAL RECOVERABLE),	CYANIDE,	PHENO	LS, AND	HARDNE	SS .	1744 - N. C. 1849	6299 D. a (2400.1160%)	Garagin mini	- Court picossi	SECURISE DE CONCERNO DE LA CONCERNO DEL CONCERNO DEL CONCERNO DE LA CONCERNO DEL CONCERNO DEL CONCERNO DE LA CO	a primer in a superior superior and the
ANTIMONY											
ARSENIC											
BERYLLIUM											
CADMIUM											
CHROMIUM											
COPPER											
LEAD											
MERCURY											
NICKEL											
SELENIUM								-			
SILVER											
THALLIUM											
ZINC											
CYANIDE											
TOTAL PHENOLIC COMPOUNDS											
HARDNÉSS (AS CaCO3)		1	1							_	
Use this space (or a separate sheet) if	o provide i	nformati	on on oth	er metals	requested	by the p	ermit write	er.	1		•

Lexington-Rockbridge Regional WQCF - VA0088161

Outfall number: 001 PrevSub	_ (Complete once for each outfall discharging effluent to waters of the United S MAXIMUM DAILY AVERAGE DAILY DISCHARGE								STATES.)		
POLLUTANT	MAXIMUM DAILY DISCHARGE			, 	ÆRAGE	DAILY	DISCH				
1 M. 1	Conc.		Mass		Conc.	Units	Mass	Units	Number of, Samples	ANALYTICAL METHOD	ML/MDL
VOLATILE ORGANIC COMPOUNDS.				<u></u>			- ,,_				
ACROLEIN				_							
ACRYLONITRILE:											
BENZENE											
BROMOFORM								_			
CARBON TETRACHLORIDE											
CLOROBENZENE				-							
CHLORODIBROMO-METHANE											
CHLOROETHANE											
2-CHLORO-ETHŸLVÍNŸL ETHER											
CHLOROFORM								-			
DICHLOROBROMO-METHANE											
1,1-DICHLOROETHANE											
1,2-DICHLOROETHANE						_		-			
TRANS-1,2-DICHLORO-ETHYLENE											
1,1-DICHLOROETHYLENE											
1,2-DICHLOROPROPANE											
1,3-DICHLORO-PROPYLENE											
ETHYLBENZENE									1		
METHYL BROMIDE											
METHYL CHLORIDE											
METHYLENE CHLORIDE											·
1,1,2,2-TETRACHLORO-ETHANE											
TETRACHLORO-ETHYLENE											
TOLUENE				1							

FACILITY NAME AND PERMIT NUMBER: Lexington-Rockbridge Regional WQCF - VA0088161

(Complete once for each outfall discharging effluent to waters of the United States.) Outfall number: 001 PrevSub MAXIMUM DAILY AVERAGE DAILY DISCHARGE POLLUTANT DISCHARGE ANALYTICAL ML/ MDE Conc. Units Mass Units Conc Units Maŝs Units Number METHOD of -Samples 1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE TRICHLORETHYLENE VINYL CHLORIDE Use this space (or a separate sheet) to provide information on other volatile organic compounds requested by the permit writer. **ACID-EXTRACTABLE COMPOUNDS** P-CHLORO-M-CRESOL 2-CHLOROPHENOL 2.4-DICHLOROPHENOL 2,4-DIMETHYLPHENOL 4,6-DINITRO-O-CRESOL 2,4-DINITROPHENOL 2-NITROPHENOL 4-NITROPHENOL PENTACHLOROPHENOL PHENOL 24,6-TRICHLOROPHENOL Use this space (or a separate sheet) to provide information on other acid-extractable compounds requested by the permit writer. BASE-NEUTRAL COMPOUNDS. ACENAPHTHENĒ **ACENAPHTHYLENE ANTHRACENE** BENZIDINE BENZO(A)ANTHRACENE BENZO(A)PYRENE

FACILITY NAME AND PERMIT NUMBER: Lexington-Rockbridge Regional WQCF - VA0088161

(Complete once for each outfall discharging effluent to waters of the United States.) Outfall number: 001 PrevSub... POLLUTANT AVERAGE DAILY DISCHARGE MAXIMUM DAILY DISCHARGE Conc. Units Mass Units Conc. Units Number ANALYTICAL ML/ MDL Units :Mass of METHOD Samples 3,4 BENZO-FLUORANTHENE BENZO(GHI)PERYLENE BENZO(K)FLUORANTHENE BIS (2-CHLOROETHOXY) METHANE BIS (2-CHLOROETHYL)-ETHER BIS (2-CHLOROISO-PROPYL) ETHÈR BIS (2-ETHYLHEXYL) PHTHALATE 4-BROMOPHENYL PHENYL ETHER BUTYL BENZYL PHTHALATE. 2-CHLORONAPHTHALENE 4-CHLORPHENYL PHENYL ETHER CHRYSENE DI-N-BUTYL PHTHALATE. DI-N-OCTYL PHTHALATE DIBENZO(A,H) ANTHRACENE 1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 3,3-DICHLOROBENZIDINE DIETHYL PHTHALATE DIMETHYL PHTHALATE 2,4-DINITROTOLUENE 2.6-DINITROTOLUENE 1,2-DIPHENYLHYDRAZINE

Lexington-Rockbridge Regional WQCF - VA0088161

Outfall number: 001 PrevSub (Complete once for each outfall discharging effluent to waters of the United States.)											
POLLUTANT	P 250 000		M DAIL	(1)	∫. AV	ERAGE	DAILY	DISCH	ARGE		
	Conc		Mass	Units	Conc	Units	Mass	Units	Number	ANALYTICAL METHOD	MUMDL
									of Samples	METHOD ()	
FLUORANTHENE											
FLUORENE											
HEXACHLOROBENZENE											
HEXACHLOROBUTADIENE				•==							
HEXACHLOROCYCLO- PENTADIENE					<u> </u>	-					
HEXACHLOROETHANE											
ÍNDENO(1,2,3-CD)PYRENE									<u></u>		
ISOPHORONE				<u></u>							
NAPHTHALENE											
NITROBENZENE											
N-NITROSODI-N-PROPYLAMINE	<u> </u>						<u> </u>				
N-NITROSODI- METHYLAMINE											
N-NITROSODI-PHENYLAMINE											
PHENANTHRENE						ļ					
PYRENE							<u>.</u>				
1,2,4-TRICHLOROBENZENE											
Use this space (or a separate sheet) to	o provide il	ntormatik T	on othe	r base ne	utral com	ounds re	quested 1	by the pe	ermit writer.	1	
Use this space (or a separate sheet) t	o provide i	nformatio	I on on othe	r pollután	ts (e.g., pe	 esticides)	requeste	d by the	permit writer.	<u> </u>	<u>L.,</u>
	1	Τ	1	Ī	1				1		
	GRANTER TO		- Carlos	L	DOE	DAD'	i CD	CONCULTO BUCKER		religion distribution del	

END OF PART D.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND PERMIT NUMBER:

Lexington-Rockbridge Regional WQCF - VA0088161

SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points. 1) POTWs with a design flow rate greater than or equal to 1.0 mgd, 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403), or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species); or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QAVQC requirements of 40 CFR Part 136 and other appropriate QAVQC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years." If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. for biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to

complete:											
E.1. Required Tests.											
indicate the number of whole effluer	nt toxicity tests conducted in the pas	t four and one-half years.									
acute											
E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.											
,	Test number:		Test number:								
a. Test information.											
Test species & test method number	Data Previously Submitted										
Age at initiation of test											
Outfall number			;								
Dates sample collected											
Date test started											
Duration											
b. Give toxicity test methods follow	ved.										
Manual title											
Edition number and year of publication											
Page number(s)											
c. Give the sample collection meth	nod(s) used. For multiple grab samp	les, indicate the number of grab san	nples used.								
24-Hour composite											
Grab											
d. Indicate where the sample was	taken in relation to disinfection. (Che	eck all that apply for each)									
Before disinfection											
After disinfection											
After dechlorination											

FACILITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99 OMB Number 2040-0086
Lexington-Rockbridge Regional WQCF - VA0088161	OMB Walled Lave Cook

	Test number:	Test number	Test number:		
e. Describe the point in the treatment process at which the sample was collected.					
Sample was collected:					
f. For each test, include whether the te	st was intended to assess chronic	toxicity, acute toxicity, or both.			
Chronic toxicity					
Acute toxicity		-			
g. Provide the type of test performed.					
Static					
Static-renewal					
Flow-through					
h. Source of dilution water. If laborato	h. Source of dilution water. If laboratory water, specify type, if receiving water, specify source.				
Laboratory water					
Receiving water					
i. Type of dilution water. It salt water,	specify "natural" or type of artificia	I sea salts or brine used.			
Fresh water			·		
Salt water					
j. Give the percentage effluent used for	or all concentrations in the test ser	ies.			
k. Parameters measured during the te	st. (State whether parameter mee	ets test method specifications)			
рН					
Salinity			· · · · · · · · · · · · · · · · · · ·		
Temperature					
Ammonia			- 2 T 1 1 T 2 T 2		
Dissolved oxygen					
I. Test Results.					
Acute:			<u> </u>		
Percent survival in 100% effluent	%	%	%		
LC ₅₀					
95% C.I.	%	%	%		
Control percent survival	%	%	%		
Other (describe)					
		, , , , , , , , , , , , , , , , , ,	D=44 40 40		

Form Approved 1/14/99 **FACILITY NAME AND PERMIT NUMBER:** OMB Number 2040-0086 Lexington-Rockbridge Regional WQCF - VA0088161 Chronic: % NOEC % % % IC₂₅ % % % Control percent survival Other (describe) m. Quality Control/Quality Assurance. Is reference toxicant data available? Was reference toxicant test within acceptable bounds? What date was reference toxicant test run (MM/DD/YYYY)? Other (describe) E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation? _Yes √. No If yes, describe: E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results. (MM/DD/YYYY) Date submitted: Summary of results: (see instructions) Previously submitted for August 2009 - August 2013 END OF PARTE. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

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Lexington-Rockbridge Regional WQCF - VA0088161

Form Approved 1/14/99 OMB Number 2040-0086

	PLEMENTAL APPLICATION INFORMATION
PAR	T.F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES
	eatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes mu blete Part F
	IERAL INFORMATION:
	Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program? Yes
	Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following type of industrial users that discharge to the treatment works.
	a. Number of non-categorical SIUs. 0
	b. Number of CIUs. 0
SIGN	NIFICANT INDUSTRIAL USER INFORMATION:
	ly the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3.through F.8 provide the information requested for each SIU.
3.	Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary. Name:
	Mailing Address;
4 .	Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
	Principal product(s):
	Pour microsial(a):
	Raw material(s): Flow Rate.
	a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
	gpd (continuous orintermittent)
	 Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
	gpd (continuous orintermittent)
F .7 .	Pretreatment Standards. Indicate whether the SIU is subject to the following:
	a. Local limitsYesNo
	and a contract of the contract of
	b. Categorical pretreatment standardsYesNo

Form Approved 1/14/99 FACILITY NAME AND PERMIT NUMBER: OMB Number 2040-0086 Lexington-Rockbridge Regional WQCF - VA0088161 F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years? If yes, describe each episode. Yes No RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE: F.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or dedicated pipe? ____Yes ___No (go to F.12.) F.10. Waste Transport. Method by which RCRA waste is received (check all that apply): Dedicated Pipe Rail F.11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units). Amount EPA Hazardous Waste Number CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER: F.12. Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities? Yes (complete F.13 through F.15.) Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site. F.13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years). F.14. Pollutants. List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary). F.15. Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment works? __Yes ___No If yes, describe the treatment (provide information about the removal efficiency): b. Is the discharge (or will the discharge be) continuous or intermittent? If intermittent, describe discharge schedule. Intermittent Continuous END OF PART F REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

Form Approved 1/14/99 FACILITY NAME AND PERMIT NUMBER: OMB Number 2040-0086 Lexington-Rockbridge Regional WQCF - VA0088161 SUPPLEMENTAL APPLICATION INFORMATION PART G. COMBINED SEWER SYSTEMS If the treatment works has a combined sewer system, complete Part G. G.1. System Map. Provide a map indicating the following: (may be included with Basic Application Information) a. All CSO discharge points. b. Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters). c. Waters that support threatened and endangered species potentially affected by CSOs. G.2. System Diagram. Provide a diagram, either in the map provided in G.1. or on a separate drawing, of the combined sewer collection system that includes the following information: a. Locations of major sewer trunk lines, both combined and separate sanitary. Locations of points where separate sanitary sewers feed into the combined sewer system. Locations of in-line and off-line storage structures. Locations of flow-regulating devices. e. Locations of pump stations. **CSO OUTFALLS:** Complete questions G.3 through G.6 once for each CSO discharge point. G.3. Description of Outfall. Outfall number Location (Zip Code) (City or town, if applicable) (State) (County) (Longitude) (Latitude) c. Distance from shore (if applicable) Depth below surface (if applicable) Which of the following were monitored during the last year for this CSO? **CSO** frequency CSO pollutant concentrations Rainfall Receiving water quality CSO flow volume f. How many storm events were monitored during the last year? G.4. CSO Events. a. Give the number of CSO events in the last year. events (___ actual or ___ approx.) b. Give the average duration per CSO event.

actual or_

hours (

	TY NAME AND PERMIT NUMBER: on-Rockbridge Regional WQCF - VA0088161	Form Approved 1/14/99 OMB Number 2040-0086
C	Give the average volume per CSO event.	
	million gallons (actual or approx.)	
d	. Give the minimum rainfall that caused a CSO event in the last year.	
	inches of rainfall	
G.5. D	escription of Receiving Waters.	
a	. Name of receiving water:	
t	Name of watershed/river/stream system:	
	United States Soil Conservation Service 14-digit watershed code (if k	nown):
c	Name of State Management/River Basin:	
	United States Geological Survey 8-digit hydrologic cataloging unit co	de (if known):
G.6. C	SO Operations.	
	Describe any known water quality impacts on the receiving water caused permanent or intermittent shell fish bed closings, fish kills, fish advisories, quality standard).	by this CSO (e.g., permanent or intermittent beach closings, other recreational loss, or violation of any applicable State water
-		
	END/OF PA	
REF	ER TÓ THE APPLICATION OVERVIEW TO DE 2A YOU MUST C	

Figure B-2: Solids Train Diagram

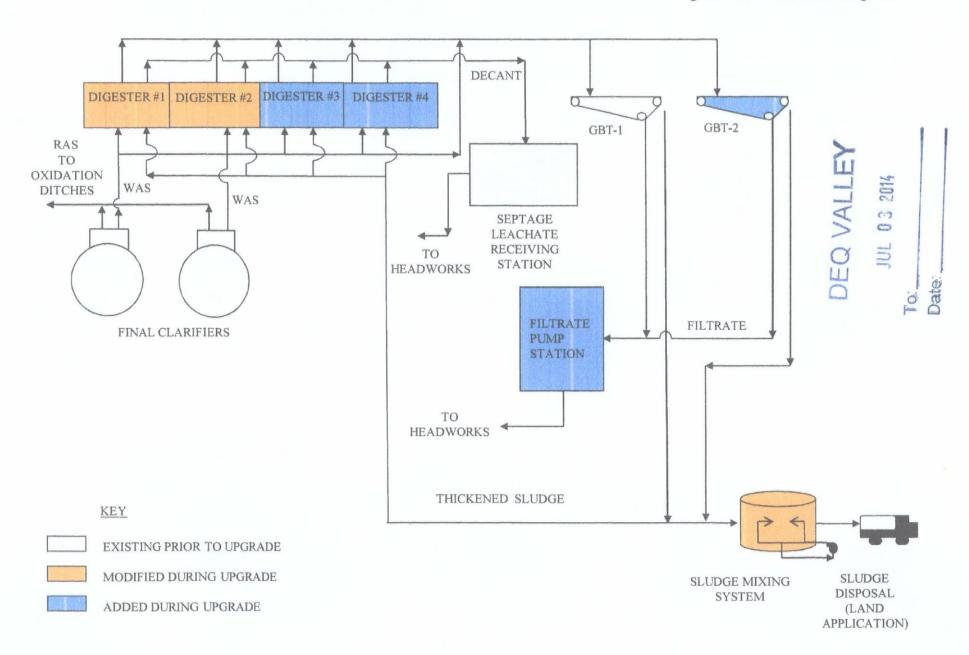
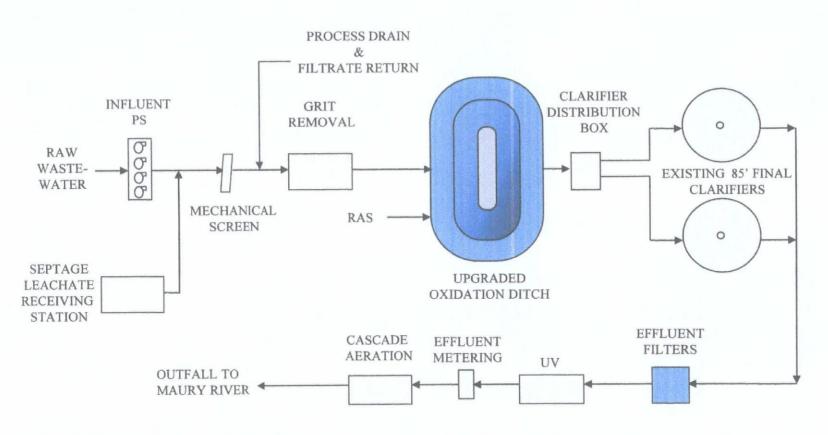


Figure B-1: Liquid Train Diagram



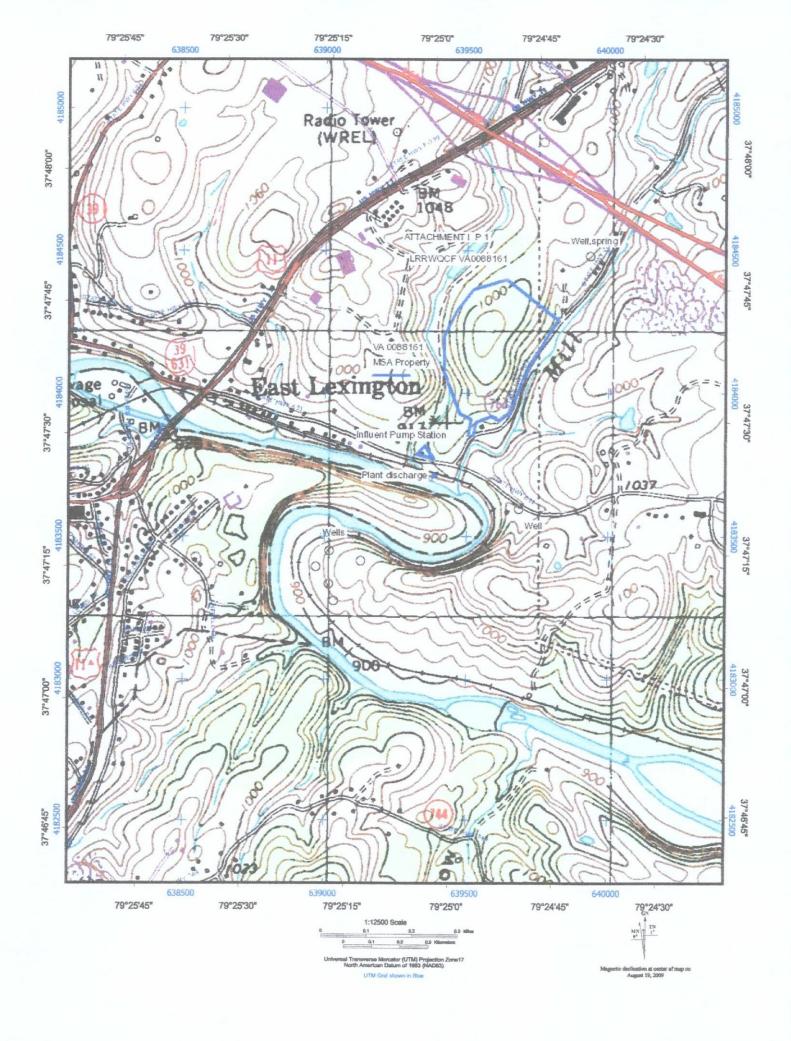
KEY

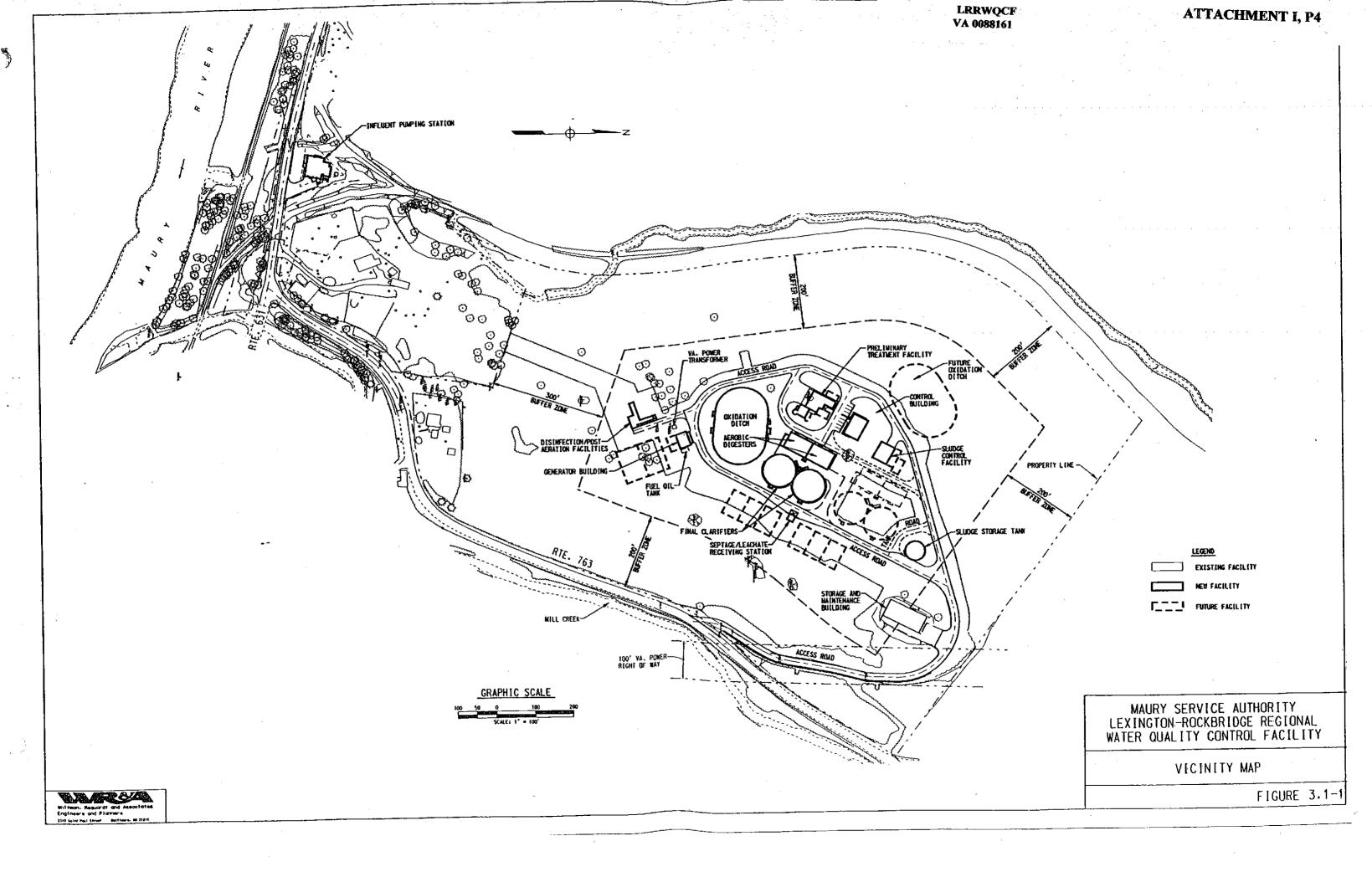
EXISTING PRIOR TO UPGRADE

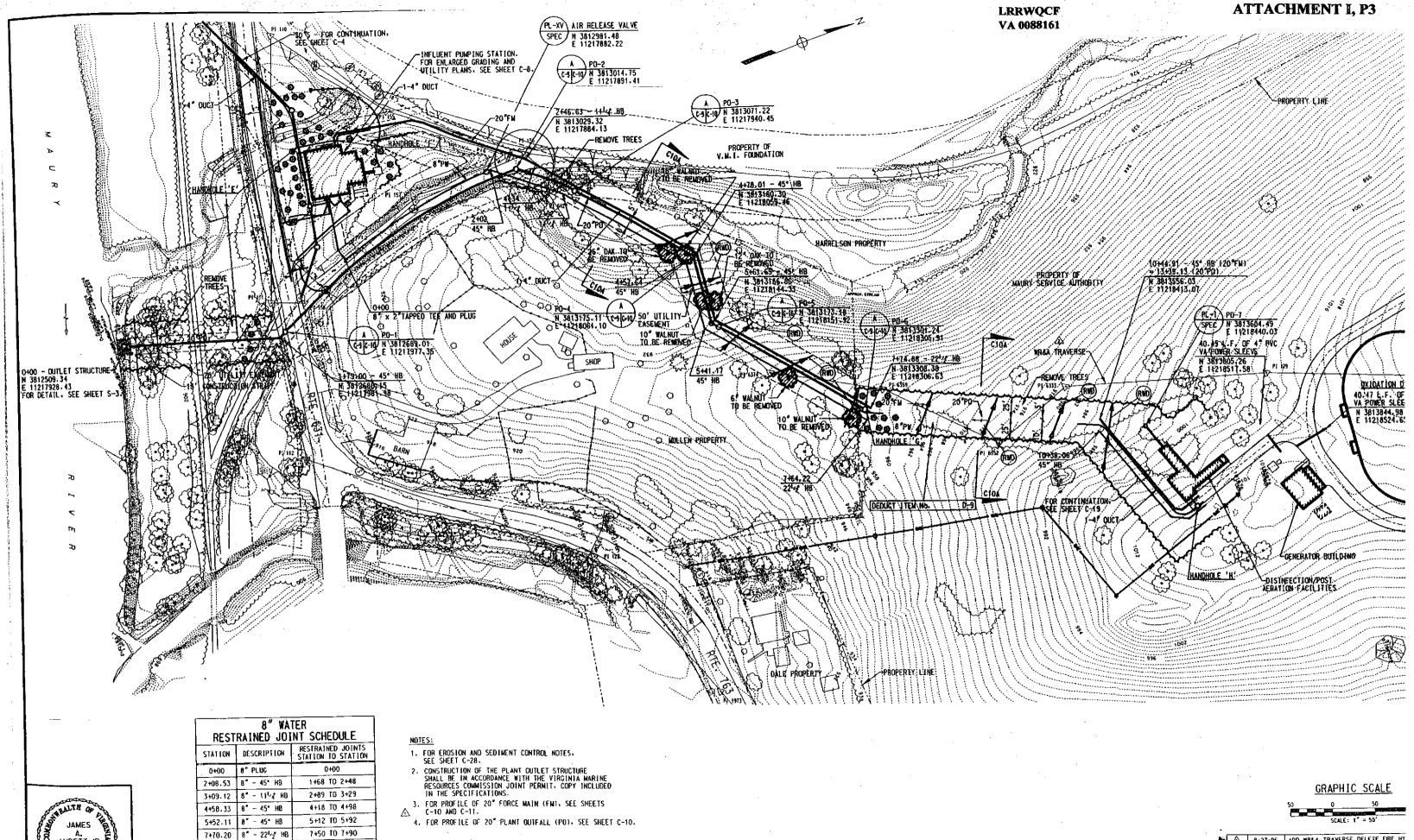
UPGRADE

O PUMP









▲ 8-27-96 ADD WR&A TRAVERSE, DELETE FIRE HY

VALVE AND TEE. 4-19-96 ADDENDUM No. 5

A. AVRETT,JR

10+06 10 10+86

10+45.97 8" - 45" HB

SLUBGE QUANTITIES LAT 3.1 MGD1

WASTE ACTIVATED SLUDGE SLUDGE VILUME AT 1.02 SOLIDS 39.000 GPD TSS - 3.275 LBS/DAY VSS - 1.801 LBS/DAY

AEROBSC DIGESTION

DIGESTERS-2 UNITS
VOLUME TOTAL 90.816 FT 3
679.350 GALLONS
PEAR MONTH FACTOR 1.2

AEROBIC DIGESTION (CONT.)

DETENTION TIME: SRT 60 DAYS HRT 14.5 DAYS

AERAT JON AVIXING EQUIPMENT

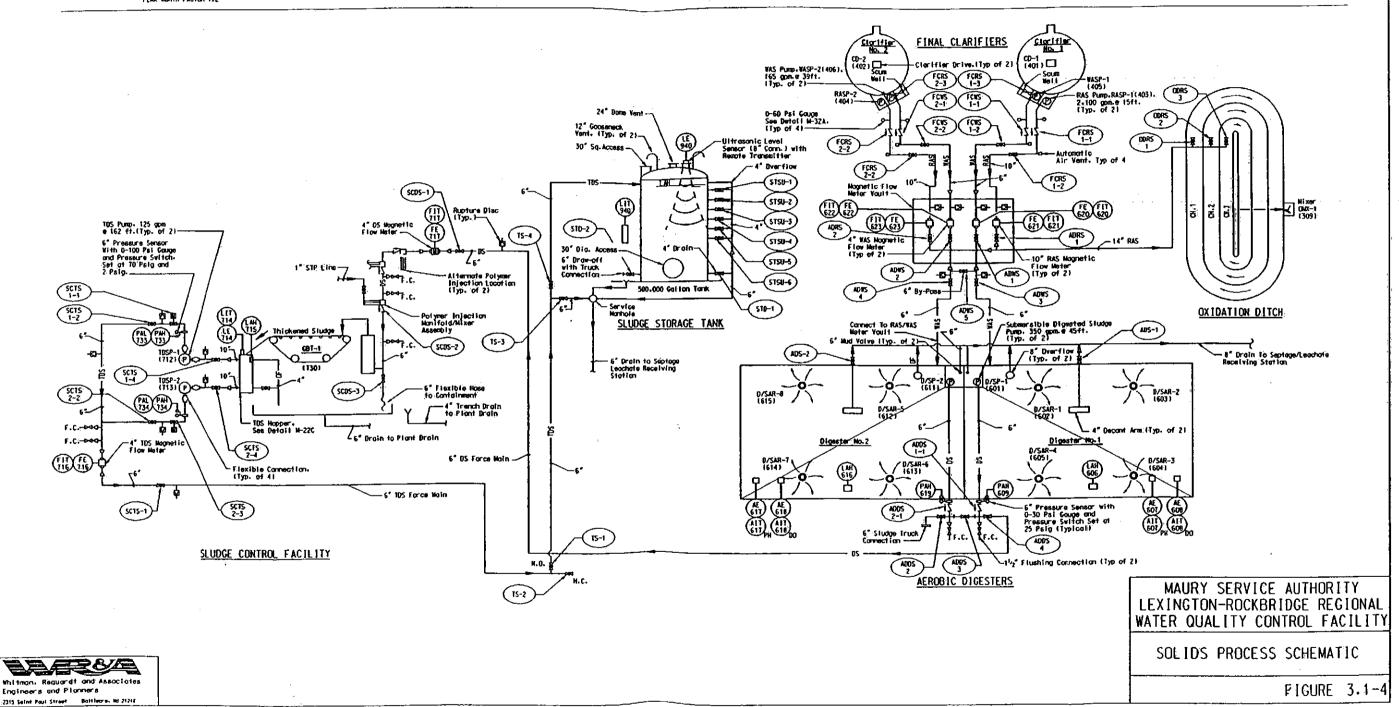
EACH AEROBIC DIGESTER: SUBMERSIBLE MECHANICAL AERATORS/MIXERS-4 UNITS

MASTE ACTIVATED SLUDGE THICKENING

DICESTED SLUDGE FLOW AFTER 38% VSS DESTRUCTION AT 2% SOLIOS 15.000 GPD 2.512 LBS/DAY CRAYITY BELT THICKENER - 1 UNIT UNIT WIDTH - 1 WETER SOLIOS LONDING -3.517 LBS/DAY PER'S DAY WEEK HYDRAULIC LONDING 15 DAYS/WEEK 54 GPM/METER OPERATING TIME - 32.5 HRS/WEEK

TH) CKENED SLUDGE STORAGE

CAPACITY 500-000 GALLON QUARTITY 1



LRRWQCF **ATTACHMENT II, P1** UCTRAVIOLET DISINFECTION BIOLOGICAL TREATMENT. FINAL CLARIFIERS VA 0088161 PRELIMINARY TREATMENT LIQUID PROCESS DESIGN CRITERIA HAW WASTEWATER CLARIFIEDS - 2 UNITS
DIAMETER - 85 FT.
SIDE UNITER DEPTH - 14 FT.
SIDE UNITER DEPTH - 14 FT.
OVERFLUM RATE AT 1.5 MCD - 273 GPD/FT²
SOLIDS LOUDING RATE - 0.76 LBS/MR/FT²
WEIR LUMPING AT 11.2 MCD - 13.332 GPD/LF NUMBER OF CHANNELS - 2
AVERAGE DAILY FLOW RATE (PHASE 1) - 2 MED
PEAN FLOW RATE (PHASE 11 - 1.5 MED)
AVERAGE DAILY FLOW RATE (PHASE 11) - 3 MED
PEAN FLOW RATE (PHASE 11) - 11.2 MED
ULTRAVIOLET TRANSMITTANCE - 653.
ULTRAVIOLET TRANSMITTANCE - 653. OXIDATION DITCH - E UNIT ACRATION VOLUME - Z-332-933 GAL MECHANICAL SCREENS - 1 UNIT SCREEN CAPACITY - 12.0 MGD WITH AVERAGE FLOW = 3.1 MGD PEAK HOUR FLOW = 11.2 MGO TEMPERATURE - 15°C ADJUSTABLE CONTROL WEIR
HAMUALLY CLEANED BYPASS SCREEN - I UNIT 155 175 MG/L 1800 195 MG/L SRY - 20 DAYS HRT - 18 HRS MLVSS - 2225 MG/L CRIT CHANGER - 1 CRIT CHANGER CAPACITY - 12.0 MCD TRH 41 MG/L TEMPERATURE = 15° C FICAL COLIFORMS PERMITTED 200/100 M MESS - 4000 ME/L DESIGN CRITERIA INCLUDES PLANT RECYCLES GRIT CLASSIFIERS - 2 UNITS EFFLUENT REAFRATION PERMIT REQUIREMENTS DESIGN EFFLUENT DESIGN PLANT EFFLUENT STEPPED CASCADE 3.0 MCD 30 MG/L 30 MG/L 8.2 MG/L (JUNE THRU HOYEMBER) 3.0 MGD 15 MG/L 10 MG/L FLOW 155 1800 14 MG/L COFCEMENT THRU MAY I COT Y (1) (J+T) Structure Boundary (Typ. 6" Force Main - 2" Sodium Hypochlorite Addition HoOC! (Odor Control) 8"-Structure Boundary (Typ.) Vet Vell—(-16" Sunge Retilef/ Flushing Line **E** Aerobic Digesters 6" Surge Relief Dischorge -----SEPTAGE / LEACHATE RECEIVING STATION Future 1872 Pressure Sensor With Remote B-30 Ft. Gauge (Typ. of 3) -Oxidution Ditch Drive. (Typ. of 8) a*Pressure Sensor wit 0–160 Psi Gauge and Pressure Switch. Set pt 25 Psig (Typ. of Possible Future Grit Chombe 99 _6"To Plant Orain Possible Future Oxidation Ditch and Final Clarifiers Influent Influent Pump. See Sheet M-8 for Copocity Criteria, Ityp. of 31 --CIG-117311 ₹24° Oxldetion Ditch Influent HUD VALVE LTYP. OF 41 Screening Effluent Charmel Lz cs Addition Screenings Compactor Chure DRY-Tcounty Parshall Flume Metering Monhole (PSA 9" (D)11 OXIDATION DITCH Screening Container (Typ) Automitic Backwash Strainer (ABS-1) 4" to:Plant Orain -- County Parshall Flums Matering Manhola (PSA 3*1 30" Final Clarifie By-Poss Stop Plate ----Grif Sturry Happer (00 mr 3) Die Company THE COLUMN Gr.11 Renoval Chamber - 4" Butterfly Yalve, (Typ. of 4) (PGS) 2-7) (00 Y 3 6" Pressor Sensor with 0-20 ft. Gouge Crit Sturry Pump. 250 gpm. # 50 ft. iTyp. of 21 For Typical Ditrasonic Level Sensor Manhole -City of Lexington (2" Parshall Flume-Hetering Manhola ∈ 6" Suction - Distribution Box - MAS Bell (Typ of 21 (00MII)-Som Hell (Typ of 2 12" County 24" City / County Interceptor - 4 Pressure Sansor With Welr -0-30 Pel Gauge and Pressure Switch. Set e 24 palg. (Typ. of 21 1-1/2 24" (Typ. of 2) INFLUENT PUMPING STATION 4" Check Yolve (Typ. of 21— - 6" Vent. (1yp. of 2) 4" Plug Valve -Level Controllers (Typ. of 21 Fost Sturry

Cyclane. (1yp. of 2)

Fost Sturry

Grit Sturry

Fost Stur PE PE Future Ultraviolet Bank (Typ of 2) - Ultraviolet Bank. 1Typ. of 41 4" R.E. (Typ. of 31 230" Disinfect -Possible Future Final Clariflers Effluent 6" Drain to Screen Effluent Charnel— (Typ of 2) — Grit Classifier Discharge Head: (Typ. of 2) Clarifier No. 2 Notor Operated 511de Gate UYSG-I Possible future filters DISINFECTION / POST AERATION FACILITIES PRELIMINARY TREATMENT FACILITIES FINAL CLARIFIERS MAURY SERVICE AUTHORITY **DEQ VALLEY** LEXINGTON-ROCKBRIDGE REGIONAL WATER QUALITY CONTROL FACILITY JUL 03 2014 LIQUID PROCESS SCHEMATIC BREZOGE To: entiteion. Regionat and Associates FIGURE 3.1-3 Engineers and Planners Date 2315 Solvet Paul Street - Boltimore, Md 21218

VIRGINIA DEQ NO EXPOSURE CERTIFICATION FOR EXCLUSION FROM VPDES INDUSTRIAL ACTIVITY STORMWATER PERMITTING

Submission of this **No Exposure Certification** constitutes notice that the entity identified below does not require permit authorization for its stormwater discharges associated with industrial activity under the VPDES Permit Program due to the existence of a condition of **No Exposure**.

A condition of **No Exposure** exists at an industrial facility when all industrial materials and activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff. Industrial materials or activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. Material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product or waste product. A storm resistant shelter is not required for the following industrial materials and activities:

- drums, barrels, tanks, and similar containers that are tightly sealed, provided those containers are not deteriorated and do not leak. "Sealed" means banded or otherwise secured and without operational taps or valves;
- · adequately maintained vehicles used in material handling; and
- final products, other than products that would be mobilized in stormwater discharges (e.g., rock salt).

A No Exposure Certification must be provided for each facility qualifying for the No Exposure exclusion. In addition, the exclusion from VPDES permitting is available on a facility-wide basis only, not for individual outfalls. If any industrial activities or materials are or will be exposed to precipitation, the facility is not eligible for the No Exposure exclusion.

By signing and submitting this No Exposure Certification form, the entity below is certifying that a condition of No Exposure exists at its facility or site, and is obligated to comply with the terms and conditions at <u>9VAC25-31-120 E</u> (the VPDES Permit Regulation).

Please Type or Print All Information. ALL INFORMATION ON THIS FORM MUST BE PROVIDED. 1. Facility Operator Information Name: Maury Service Authority Mailing Address: PO Box 785 Phone: 5404633566 Zip: State: 24450 City: Lexington 2. Facility/Site Location Information Facility Name: Lexington-Rockbridge Regional Water Quality Control Facility Address: 135 Bob Akins Circle State: VA Zip: 24450 City: Lexington County Name: Rockbridge Longitude: W79 25' 1.5" Latitude: N37 47' 24.0" 3. Was the facility or site previously covered under a VPDES stormwater permit? Yes No 🗸 If "Yes", enter the VPDES permit number: 4. SIC/Activity Codes: Secondary (if applicable): Primary: 4952 5. Total size of facility/site associated with industrial activity: 17 6. Have you paved or roofed over a formerly exposed pervious area in order to qualify for the No Exposure exclusion? Yes No V If "Yes", please indicate approximately how much area was paved or roofed. Completing this question does not disqualify you for the No Exposure exclusion. However, DEQ may use this information in considering whether stormwater discharges from your site are likely to have an adverse impact on water quality, in which case you could be required to obtain permit coverage. One to five acres More than five acres Less than one acre

che	e any of the following materials or activities exposed to precipitation, now or in the foreseeable eck either "Yes" or "No" in the appropriate box.) If you answer "Yes" to any of these quest ly, you are NOT eligible for the No Exposure exclusion.	future? ions (1)	(Please through
•		Yes	No
(1)	Using, storing or cleaning industrial machinery or equipment, and areas where residuals from using, storing or cleaning industrial machinery or equipment remain and are exposed to stormwater		\square
(2)	Materials or residuals on the ground or in stormwater inlets from spill/leaks		7
(3)	Materials or products from past industrial activity	$\overline{\Box}$	
(4)	Material handling equipment (except adequately maintained vehicles)	$\overline{\Box}$	
(5)	Materials or products during loading/unloading or transporting activities		
(6)	Materials or products stored outdoors (except final products intended for outside use [e.g., new cars] where exposure to stormwater does not result in the discharge of pollutants)		V
(7)	Materials contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers		7
(8)	Materials or products handled/stored on roads or railways owned or maintained by the discharger		\checkmark
(9)	Waste material (except waste in covered, non-leaking containers [e.g., dumpsters])		\checkmark
(10)	Application or disposal of process wastewater (unless otherwise permitted)		$ \mathbf{V} $
(11)	Particulate matter or visible deposits of residuals from roof stacks and/or vents not otherwise regulated (i.e., under an air quality control permit) and evident in the stormwater outflow		
8. Ce	rtification Statement		•
exposur contam	re and obtaining an exclusion from VPDES stormwater permitting; and that there are no discharg inated by exposure to industrial activities or materials from the industrial facility identified in this d	es of sto	omwater
Environ application perform request	mental Quality and, if requested, to the operator of the local MS4 into which this facility displey. I understand that I must allow the Department, or MS4 operator where the discharge is into inspections to confirm the condition of no exposure and to make such inspection reports public. I understand that I must obtain coverage under a VPDES permit prior to any point soul	scharge: the local ly availa	s (where I MS4, to ble upon
accorda submitte in gathe complet	ince with a system designed to assure that qualified personnel properly gathered and evaluated and evaluated and evaluated and evaluated and evaluated and beginning the information, the information submitted is to the best of my knowledge and belief true. I am aware that there are significant penalties for submitting false information, including the	d the info directly le, accur	omation involved rate and
Prin	t Name: Richard L. Allen		
Prin	t Title: Director, Utilities Processing Department	· · · · · · · · · · · · · · · · · · · 	··········
Ema	check either "Yes" or "No" in the appropriate box.) If you answer "Yes" to any of these questions (1) through (11), you are NOT eligible for the No Exposure exclusion. Yes No (1) Using, storing or cleaning industrial machinery or equipment, and areas where residuals from using, storing or cleaning industrial machinery or equipment remain and are exposed to stormwater (2) Materials or residuals on the ground or in stormwater inlets from spill/leaks (3) Materials or products from past industrial activity (4) Materials or products during loading/unloading or transporting activities (5) Materials or products stored outdoors (except firal products intended for outside use [e.g., new carg) where exposure to stormwater does not result in the discharge of pollutants) (7) Materials containers (8) Materials or products handled/stored on roads or reiliways owned or maintained by the discharger (9) Waste material (except waste in covered, non-leaking containers [e.g., dumpsters]) (10) Application or disposal of process wastewater (unless otherwise permitted) (11) Particulate matter or visible deposits of residuals from roof stacks and/or vents not otherwise regulated (i.e., under an air quality control permit) and evident in the stormwater outflow Certification Statement certify under penalty of law that I have read and understand the eligibility requirements for claiming a condition of no exposure and obtaining an exclusion from VPDES stormwater permitting; and that there are no discharges of stormwater outlanded by exposure to industrial activities or materials from the industrial facility identified in this document (except punders and that I am obligated to submit a No Exposure Certification from once every five years to the Department of the local MS4 into which this facility discharges (where pplicable). I understand that I must obtain coverage under a VPDES permit prior to any point source discharge of formwater associated with industrial activity from the facility. certify under penalty of law that its		
Sign	nature: Richard Allen Date: 7-1-1	14	
	For Department of Environmental Quality Use Only	· · · · · · · · · · · · · · · · · · ·	
Accepted/	Not Accepted by: Date :		

7. Exposure Checklist

VPDES/VPA Permit Billing Information Form for Annual Maintenance Fee

Facility Name:	Lexington-Rockbridge Regional WQCF
	VA0088161
Owner Name:	Maury Service Authority
Owner Address:	PO Box 922
	Lexington, VA 24450
Billing Contact Name:	Richard L. Allen
Title:	Director, Utilities Processing Department, City of Lexington
Phone Number:	540-463-3566
E-Mail Address:	rallen@lexingtonva.gov_

PUBLIC NOTICE BILLING INFORMATION

notice billed to the Agent/Department show	ronmental Quality to have the cost of publishing a public wn below. The public notice will be published once a week Gazette in accordance with 9 VAC 25-31-290.C.2.
Tor two consecutive weeks in <u>rme_ivews</u>	in accordance with y VAC 25-51-250.C.2.
Agent/Department to be billed:	City of Lexington – Utilities Processing Department
Owner:	Maury Service Authority
Agent/Department Address:	PO Box 922
	Lexington, VA 24450
Agent's Telephone No.:	1-540-463-3566
Printed Name:	Richard L. Allen
Authorizing Agent – Signature:	Richard L. Alle
	7-1-14
Facility Name: Lexington-Rockbridge Reg	gional WQCF
VPDES Permit No. VA 0088161	·

	VPDES Sewage Sludge Permit Application for Permit Reissuance	
Ins	structions	
WH that Part Part	HO MUST SUBMIT THE APPLICATION - All facilities with a current VPDES Permit that authorizes the discharge of treat t are applying for reissuance must complete and submit this application. 1 is general information to be provided by all facilities. 1 must be completed by all facilities that generate Class A or Class B biosolids that are land applied. 1 must be completed by all facilities that land apply Class B biosolids.	ed sewage wastewater
Pa	rt 1 - Sludge Disposal Management (To be completed by all facilities)	
Fac	cility Name: Lexington-Rockbridge Regional WOCF VPDES Permit No: VA0088161	
1.	Shipment Off Site for Treatment or Blending	
	Is sewage sludge from your facility sent to another facility that provides treatment or blending?	☐ Yes ☒ No
	If you send sewage sludge to more than one facility, attach additional sheets as necessary.	VALLEY
	Shipment off site is: The primary method of sludge disposal A back up method of sludge disposal	x varrea
	a. Receiving Facility Name	11 2
		IL 2 5 2014
	c. Include an acceptance letter from the Receiving Facility.	
	d. Receiving Facility's ultimate disposal method for sewage sludge	
2.	Disposal in a Municipal Solid Waste Landfill	
	Is sewage sludge from your facility placed in a municipal solid waste landfill?	XYes 🗌 No
	If sewage sludge is placed on more than one municipal solid waste landfill, attach additional pages as necessary.	_
	Landfilling is: The primary method of sludge disposal X A back up method of sludge disposal	
	a. Landfill Name Rockbridge County Landfill	
	b. Landfill Permit No. 075	
	c. Include an acceptance letter from the landfill. Attached	
3.	Incineration	
	Is sewage sludge from your facility fired in a sewage sludge incinerator?	☐ Yes X No
	Incineration is: The primary method of sludge disposal A back up method of sludge disposal	3 3
	a. Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?	□Yes □No
	If yes, provide the Air Registration No.	
	If no, complete items b - d for each incinerator that you do not own or operate.	
	b. Facility Name	
	c. Air Registration No.	
	d. Include an acceptance letter from the Incinerator.	
4.	Class A Biosolids	
٠.	Do you produce Class A biosolids for land application or distribution and marketing? If yes, complete Part 2.	☐ Yes X No
	Are Class A biosolids from your facility land applied in bulk?	☐ Yes X No
	Do you sell or give away Class A biosolids in a bag or other container for application to the land? If yes, provide the	Yes No
	VDACS certification number?	
5.	Class B Biosolids	
J.	Do you produce Class B biosolids? If yes, complete Part 2.	XiYes ☐ No
	Are Class B biosolids from your facility land applied land applied under the authorization of this VPDES Permit? If yes,	XYes \(\sum No
	complete Part 3.	F1.00
6.	Land Application Under a Separate Permit	
	Are biosolids from your facility land applied under the authorization of a permit other than your VPDES Permit?	☐ Yes ☐ No
	Biosolids are land applied under the authorization of a XVPA permit Another VPDES Permit Out of State	
	Complete items a - c for each VPA permit authorized to land apply biosolids from your facility.	
	a. Permittee Name b. Permit No.	
	Houff's Feed & Fertilizer VPA 01581, VPA 01566, VPA 01580	<u> </u>
	c. Include copy of any information you provide to the Receiving VPDES or VPA Permittee to comply with the "notice information" requirement of 9 VAC 25-31-530.F. Attached	and necessary

7.7	77 16 S.N 24-35 (2.3)	VPDES Sewage Sludge Permit Application for Permit Reissuance		
Ps	rr 2	Biosolids Characterization (To be completed by all facilities that generate biosolids that are land appl	ied)	
	•	there been changes to sludge treatment processes or storage facilities since the previous permit issuance/reissuance?	XYes	□ No
	Do th	e biosolids generated under this permit that will be land applied meet one of the Class A pathogen requirements AC25-31-710.A.3. through A.8 or Class B pathogen requirements in 9VAC25-31-710.B.1. through B.4.?	XYes	□ No
	Identi	fy the pathogen reduction option utilized to demonstrate compliance with the pathogen reductions requirements and proven strate compliance with the applicable alternative. <u>Class B Alternative 1</u>	_	ata that
3.		e biosolids generated under this permit that will be land applied meet one of the vector attraction reduction remembers in 9VAC25-31-720.B.1. through 10?	XYes	☐ No
	Identi the da	fy the vector attraction reduction option utilized to demonstrate compliance with the vector attraction reductions requirer to that demonstrate compliance with the applicable alternative. <u>Alternative 4 (SOUR)</u>	nents and	provide
4.	Do the	e biosolids to be land applied meet the ceiling/pollutant concentrations in 9VAC25-31-540,B?	XYes	□ No
5.	(mg/k (mg/k (mg/k	ata from the most recent 3 samples for pH (S. U.), Percent Solids (%), Ammonium Nitrogen (mg/kg), Nitrate Nitrogen (g), Total Kjeldahl Nitrogen (mg/kg), Total Phosphorus (mg/kg), Total Potassium (mg/kg), Alkalinity as CaCO ₃ (g), Arsenic (mg/kg), Cadmium (mg/kg), Copper (mg/kg), Lead (mg/kg), Mercury (mg/kg), Nickel (mg/kg), Selenium (g), Zinc (mg/kg) been submitted to DEQ? The samples shall be no more than 4½ years old and each sampling date be at least 1 month apart.	X Yes	□ No
	If no,	provide the data with this application.		
		Land Application of Class B Biosolids (To be completed by all facilities that land apply Class B biosol		
	respon	de to DEQ and to each locality in which biosolids are to be land applied, written evidence of financial responsibility. Evidence of sinancial responsibility. Evidence with 9VAC25-31-100.P.9. To be submitted		
2.		ich site, provide a properly completed landowner agreement for each landowner, using the most current Land Application lids Form (VPDES Sewage Sludge Permit Application Form – Attachment to Section C).	ı Agreem	ent -
3.	Are at	ny new land application fields proposed at this reissuance?	X Yes	☐ No
	If yes,	contact the DEQ Regional Office for additional submittal requirements.		
4.	For th	e currently permitted land application fields, are the previously submitted site booklets, maps and acreage accurate.	X Yes	□ No
	If no,	contact the DEQ Regional Office for additional submittal requirements. Previously submitted copies to be updated		
5.	Does	the facility's Biosolids Management Plan on file with DEQ include the following minimum information?	X Yes	☐ No
	a.	An odor control plan that addresses the abatement of odors resulting from the storage and/or land application of biosoli	ds.	
		A description of the transport vehicles to be used.		
		Procedures for biosolids offloading at the land application site including spill prevention, cleanup (including vehicle cleanup) reclamation, and emergency notification and cleanup measures.		
	d.	A description of the land application equipment including procedures for calibrating equipment to ensure uniform distri- appropriate loading rates.	bution an	ıd
	e.	Procedures used to ensure that land application activities address notification requirements, signage requirements, slope operation limitations during periods of inclement weather, soil pH requirements, buffer zone requirements, and site rest	restrictions.	ons,
	f,	Any other information necessary to ensure compliance with the requirements of the Biosolids Program of the VPDES F (9VAC25-31-420 through 720).	ermit Re	gulation
Ce	rtifica	ition	N. N. S. Y	张光·
des wh bel	igned i o mans ief, tru	nder penalty of law that this document and all attachments were prepared under my direction or supervision in accordance to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the penage the system or those persons directly responsible for gathering the information, the information is, to the best of my knee, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the somment for knowing violations.	rson or pe nowledge	ersons and
		Name and Official Title Richard L. Allen, Director, Utilities Processing Department, City of Lexington		<u> </u>
		Signature Ruchard J. March		
		Telephone number / Email (540) 463-3566 rallen@lexintonya.gov	<u> </u>	<u>-</u>
		Date signed 7-22-14		
(Ba	sed on	a review of this information, it may be necessary to submit additional information to meet other legal or technical review requirements.)		
		DEQ VALLEY		
		IIII 0 m ass		

JUL 2 5 2014

To:	
Date:	

VIRGINIA POLLUTION ABATEMENT APPLICATION

FORM D

MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-II LAND APPLICATION OF BIOSOLIDS Lexington-Rockbridge WQCF -- WA00889461

All of the information provided in this application will become part of the Biosolids Management Plan associated with a VPA individual permit issued for the proposed activity.

General Information

1. Owner Legal name. (Should be the same name given on Form A, Item 2).

Mauny Service Authority—operated by Lexington-Rockbridge Regional WQCF WA0088461

- 2. Provide a general description of the proposed operation. Previously submitted
 - a. Provide a list of the generators of biosolids that you currently handle, and each source of biosolids produced at the generating facility proposed for land application. This list shall include only sources that are identified as approved on the DEQ Sources list. (A source of biosolids at the generating facility is the product of a specific series of treatment unit processes, and a single facility may have multiple sources. For example, a generator that splits its waste activated sludge, half to a digester and a belt press and the other half to lime stabilization has 2 sources of biosolids) Include the following information:
 - 1) Legal name as it is identified on the DEQ Sources List and VPDES, NPDES or other state permit number of the generating facility:
 - 2) Source of biosolids as identified by "Treatment Type" on the DEQ Sources List:
 - 3) Provide the generating facility's odor control plan for sources identified as approved on the DEQ Sources List, but for which an odor control plan has not been submitted. The odor control plan shall contain at minimum:
 - a) Methods used to minimize odor in producing biosolids;
 - b) Methods used to identify malodorous biosolids before delivery to the land applier (at the generating facility);
 - c) Methods used to identify and abate malodorous biosolids if delivered to the field, prior to land application; and
 - d) Methods used to abate malodor from biosolids if land applied;
 - b. General location of sites proposed for application, and
 - c. Methods of biosolids application proposed.
- 3. Provide a legible copy of any leasing agreements necessary for the operation of any treatment or storage facilities not under direct ownership of the applicant, which identifies the involved parties.
- 4. Identify the methods for notification of DEQ and local government prior to proposed land application activities. Written notification via email or fax
- Provide to the DEQ and to each locality in which the biosolids are to be applied, written
 evidence of financial responsibility. Evidence of financial responsibility shall be provided in
 accordance with the requirements specified under 9VAC25-32-770 et seq.

Design Information

Biosolids Characterization (Previously submitted)

- 6. Provide a separate biosolids characterization form, Part D-IV, for each source of biosolids that is not identified as approved on the VA DEQ Approved Biosolids Source List. If a source is identified as pending, contact DEQ Office of Land Application to determine what additional information is required. The following biosolids sources will always require a characterization form:
 - a) biosolids from a new generating facility,
 - b) biosolids from an existing generator that has never been land applied in Virginia,
 - biosolids from an existing generator that has not been land applied in Virginia within the past 5 years and has not submitted biosolids monitoring data in the last 5 years,
 - d) biosolids produced by a new treatment process within an existing facility.
- Provide a Non-Hazardous Declaration Statement for each biosolids, Part D-V.
 Previously submitted

Biosolids Storage NA

- 8. Describe the current status of the available biosolids storage. List in a tabular format the **routine** biosolids storage facilities and **on-site** storage by location, total storage capacity, and the biosolids contracts currently permitted or assigned to these facilities or sites.
- 9. Provide plans and specifications for **routine** and **on-site** storage of all biosolids to be handled that depict the following information:
 - a. Site layout on a recent 7.5 minute topographic quadrangle or other appropriate scaled map with the following information:
 - (1) Location of any required soil, geologic and hydrologic test holes or borings
 - (2) Location of the following field features within 0.25 miles of the site boundary (indicated on the map) with the approximate distances from the site boundary.
 - (a) Water wells (operating or abandoned).
 - (b) Surface waters.
 - (c) Springs.
 - (d) Public water supplies.
 - (e) Sinkhöles.
 - (f) Underground and/or surface mines.
 - (g) Mine pool (or other) surface water discharge points.
 - (h) Mining spoil piles and mine dumps.
 - (i) Quarries.
 - (j) Sand and gravel pits.
 - (k) Gas and oil wells.
 - (I) Diversion ditches.
 - (m) Occupied dwellings, including industrial and commercial establishments.
 - (n) Landfills dumps.
 - (o) Other unlined impoundments.
 - (p) Septic tanks and drainfields.

- (q) Injection wells.
- b. Topographic map (10-foot contour preferred) of sufficient detail to clearly show the following information:
 - (1) Maximum and minimum percent slopes.
 - (2) Depressions on the site that may collect water.
 - (3) Drainage ways that may attribute to rainfall run-on to or runoff from this site.
 - (4) Portions of the site (if any) which are located within the 100-year floodplain.
- c. Data and specifications for the liner proposed for seepage control.
- d. Scaled plan view and cross-sectional view of the storage facilities or sites showing inside and outside slopes of all embankments and details of all appurtenances.
- e. Calculations justifying impoundment capacity, including freeboard where applicable.
- f. A description of supernatant handling and disposal.
- g. Groundwater monitoring plans for the facilities or sites including pertinent hydrogeological data to justify upgradient and downgradient well location and depth.
- 10. For the routine storage of biosolids, provide evidence of certification by the local government of the locality in which the biosolids are to be stored that the storage site is consistent with all applicable ordinances. Evidence of certification shall consist of the following:
 - a. A copy of the certification from the local government confirming that the storage site is consistent with all applicable ordinances, or where the local government fails to respond within 30 days of receiving the request for certification, a copy of the letter from the applicant to the local government requesting certification of the storage facility; or
 - b. A copy of the special exception or special use permit from the local government that has adopted an ordinance in accordance with § 62.1-44.19:3.R of the Code of Virginia.

Biosolids Transport

- 11. Provide a detailed description for each of the following:
 - a. Vehicles that will be used to transport biosolids from generators or storage to land application sites; NA
 - b. Routes to be used to transport biosolids from the generator(s) to storage unit(s); NA
 - c. Procedures for biosolids off-loading at the biosolids facilities and the land application site together with spill prevention, cleanup (including vehicle cleaning) and emergency spill notification and cleanup measures; and

Spill response and recovery procedure attached off-loading procedures previously submitted

d. Voucher system to be used to document transport and delivery of biosolids from their source to the land application site or a facility to further process the biosolids for marketing. Also describe record retention for vouchers.

Pally Log Sheet filled out by driver of sludge trucks, showing time each load is land applied to the field by each touck. Log attached

Field Operations

12. For field operations involving storage, provide a detailed description for each of the following:

- Routine storage—procedures for biosolids loading of transport vehicles, equipment cleaning, freeboard maintenance for storage of liquid biosolids, and inspections for structural integrity of the storage unit;
- b.. On-site storage—procedures for DEQ approval and implementation; designated site locations if provided in the "Design Information"; the specific site criteria including the best management practices that will be utilized to prevent contact with storm water run on or runoff and the procedures to be followed to ensure the 45 day time limit will be met;
- Staging procedures for DEQ notification; procedures to be followed including either designated site locations provided in the "Design Information" or the specific site criteria for such locations including the liner or cover requirements and the time limit assigned for such use;
- d. Procedures for reestablishment of off-loading and staging areas.
- 13. Provide a detailed description for each of the following:
 - a. The biosolids spreader vehicles and the specifications of each vehicle.

Transport vehicles for liquid biosolids shall include closed water-tight tank trucks designed to prevent leakage and spillage. Tanker trucks should be equipped with water tanks and hoses for cleaning, safety caps to prevent spillage during transport, and discharge hoses (such as splash plate nozzles) to provide for uniform distribution on the field. Trucks should be equipped with tires to provide maximum traction on the field. Current equipment (2014) includes two tanker trucks (2300 gallons and 2800 gallons) and flotation tires.

- b. Procedures for calibrating each spreader based on the solids content of various biosolids to ensure uniform distribution and appropriate loading rates on a day-to-day basis.
 - Trucks shall be calibrated annually by Department of Conservation Resources (DCR) to ensure that the spread pattern is consistent and there is no pooling of biosolids. The calibrations are done during the land application process. Measurements of the pattern length and width while empting the truck are used to calculate the gallons/acre.
- c. Procedures used to ensure that operations address the following constraints:
 - Application of biosolids to frozen ground, pasture or hay fields, crops for direct human consumption and saturated or ice/snow covered ground; and
 - Use of landowner agreement for farmer; fields checked by certified land appliers for appropriate conditions concerning ice, snow.
 - (2) Establishment of setback distances, slopes, prohibited access for beef and dairy animals, soil pH requirements, and proper site specific biosolids loading rates on a field-by-field basis.

Soil sampling and analyses and biosolids analyses for Nutrient Management Plans to establish loading rates for specific fields. Certified land appliers check fields for rocks, slopes, and buffers before applying. Clinometer used for measuring slope and range finder for measuring distance. Field features identified on site maps carried in truck by drivers, along with field management practices.

- 14. Provide a Land Applier Odor Control Plan that includes at a minimum: Previously submitted
 - Methods used to identify and abate malodorous biosolids in the field prior to land application, and
 - Methods used to abate malodorous biosolids if land applied.

Land Application Sites

- 15. Provide the DEQ control number, if previously assigned, identifying each land application field. If a DEQ control number has not been assigned, provide the site identification code used by the permit applicant to report activities and the site's location.

 Provided in Field Summary Sheet Workbook
- 16. Provide the latitude and longitude of each land application site in decimal degrees to three decimal places and the method of determination.
 Provided in Field Summary Sheet Workbook
- 17. Provide a properly completed Biosolids Application Agreement for each land owner, Part D-VI. Submitted
- 18. Provide a legible topographic map and aerial photograph, including legend, of proposed application areas to scale as needed to depict the following features:

 Previously submitted maps being updated for buffers in new regulations.
 - a. Property boundaries;
 - b. Surface water courses, including drainage ways;
 - c. Water supply wells and springs;
 - d. Roadways;
 - e. Rock outcrops;
 - f. Slopes;
 - g. Sinkholes
 - h. Frequently flooded areas (National Resources Conservation Service (NRCS) designation);
 - Occupied dwellings within 400 feet of the property boundaries and all existing dwelling and property line setback distances;
 - j. Publicly accessible properties and occupied buildings within 400 feet of the property boundaries and the associated extended setback distances; and
 - k. The gross acreage of the fields where biosolids will be applied;
- 19. Provide a county map or other map of sufficient detail to show general location of the site and proposed transport vehicle haul routes to be utilized from the treatment plant or storage facility. Route maps for each farm previously submitted
- 20. Provide county tax maps labeled with Tax Parcel ID(s)] for each farm to be included in the permit, which may include multiple fields to depict properties within 400 feet of the field boundaries. Submitted with Landowner Agreement
- 21. Provide a USDA soil survey map, if available, of proposed sites for land application of biosolids. Previously submitted
- 22. Provide the name, mailing address, and telephone number of each site owner, if different from the applicant. Provided on Landowner Agreement
- 23. Provide the name, mailing address, and telephone number of the person who applies biosolids to the site, if different from the applicant. NA
- 24. Provide information as to whether the site is agricultural land, forest, a public contact site, or a reclamation site, as such site types are defined in 9VAC25-32-10. Agricultural
- 25. Provide a description of agricultural practices including a list of proposed crops to be grown.

 Provided in Nutrient Management Plan
- 26. Provide the following information for each land application site that has been identified at the time of permit application, if the applicant intends to apply bulk biosolids subject to the Rev 10/09/2013

cumulative pollutant loading rates in 9VAC25-32-356 Table 3 to the site: NA

- (a) Whether the applicant has contacted VA DEQ to ascertain whether bulk biosolids subject to 9VAC25-32-356 Table 3 has been applied to the site on or since July 20, 1993, and if so, the name of person contacted; and
- (b) Identification of facilities other than the applicant's facility that have sent, or are sending, biosolids subject to the cumulative pollutant loading rates in 9VAC25-32-356 Table 3 to the site since July 20, 1993, if, based on the inquiry in item (a) above, bulk biosolids subject to cumulative pollutant loading rates in 9VAC25-32-356 Table 3 has been applied to the site since July 20, 1993.
- 27. Provide a nutrient management plan approved by the Department of Conservation and Recreation and a copy of the DCR approval letter for application sites meeting the following conditions NA
 - (a) Sites operated by an owner or lessee of a confined animal feeding operation, as defined in subsection A of § 62.1-44.17:1 of the Code of Virginia, or confined poultry feeding operation, as defined in subsection A of § 62.1-44.17:1.1 of the Code of Virginia;
 - (b) Sites where land application more frequently than once every three years at greater than 50% of the annual agronomic rate is proposed;
 - (c) Mined or disturbed land sites where land application is proposed at greater than agronomic rates; or
 - (d) Other sites based on site-specific conditions that increase the risk that land application may adversely impact state waters.
- 28. For mined or disturbed sites where land application is proposed at greater than agronomic rates, provide a reclamation plan that establishes the biosolids application rates and other site specific management practices. NA

Spill Response and Recovery

- (1) Responsibility of operator to take any feasible action to stop and contain spill.
- (2) Report to Plant Superintendent (540-817-0224) or other plant personnel (540-463-5936, 540-463-3566) to request any needed assistance.
- (3) Put out flares or reflector triangles for traffic control during cleanup. Notify county sheriff's office (540- 463-7328) if assistance is needed for traffic control.
- (4) Recovery of spill may include addition of absorbent material (such as lime or sawdust) and removal by shovel to prevent spill from entering pathways to surface water.
- (5) Required notifications within 24 hours specified in form below.

Spill description: Date	Time	Driver	
Location and area of spill:			
Nature of spill: Estimated quantity in gallons_	Area	in sq.ft	
Describe spill recovery:			
·		· · · · · · · · · · · · · · · · · · ·	 ·
Corrective action to prevent future spills:			•

Notifications:

24 hour verbal to to DEQ (540- 574-7800) and the Rockbridge County Administrator (540-463-4361). It is the responsibility of the driver to report the spill to the Plant Superintendent immediately. A verbal report shall be made to DEQ and county as soon as possible, but no later than 24 hours. In the absence of the Plant Superintendent, the driver shall make the verbal reports. Notification after business hours may be provided by email, fax, or voice mail.

5-day letter (first class mail, email, fax) to DEQ and County Administrator including above information. Responsibility of Plant Superintendent or other designated personnel.

Odor Control Plan - Generator

Facility Name: Lexington-Rockbridge Regional WQCF

VPDES/NPDES Permit Number:

Address:

135 Bob Akins Circle

VA0088161

City State:

Lexington, VA 24450

Contact Name: <u>Fred Schultz</u> Phone Number: <u>5404635936</u>

Email address: fschultz@lexingto.va.gov

"Malodor" means an unusually strong or offensive odor associated with biosolids or sewage sludge as distinguished from odors commonly associated with biosolids or sewage sludge.

Answer all 4 questions and check all methods that apply OR add alternative methods.

1) Identify methods used to minimize odor during production of biosolids:

Vector Attraction Reduction Method:

- □ 38% VSS solids reduction Treatment minimizes odors through anaerobic digestion to produce Class B biosolids. Digestion detention times and digester temperatures along with volatile solids reduction are monitored to ensure that State and Federal standards are achieved.
- □ Lime Addition: Treatment includes adding sufficient lime to the biosolids to raise the pH to > 12 after two hours and then testing again after an additional 22 hours for a pH greater than 11.5. Lime feed rates and biosolids pH data will be recorded and checked.

Additional procedures (if applicable):

- ☐ 15 day minimum detention time and a minimum of 95 degrees F in anaerobic digestion will be maintained
- X SOUR testing of biosolids
- X Fecal coliform testing of biosolids
- X Avoid septic conditions during sludge production
- X Maintain alkalinity during aerobic digestion
- X Monitor all sludge produced for SOUR < 1.5 mgL and Fecal Coliform to satisfy class B pathogens. Solids not released to Sludge Storage Tank until stabilization and pathogen reduction for Class B biosolids met.

	X Addition of Ferric Chloride during secondary treatment and to Sludge Storage storage periods	e lank during lor
·	X Digester detention time can be increased by feeding waste activated sludge the Belt Thickener prior to digestion	rough the Gravi
	X The Sludge Storage Tank is equipped with mixers which help prevent septic contank	nditions in the
	X Efforts are made to minimize holding time in the Sludge Storage Tank	•
2)	Identify methods used to identify malodorous biosolids at the generating facility	y:
	X Wastewater treatment facility staff will periodically perform visual as well as observations of the biosolids being digested to ensure that nothing out of the occurring during processing operations. If the solids appear to have unusual odd will be further treated and will not be thickened to the Sludge Storage Tank until improved.	e ordinary is ors, these solids
	X Dissolved oxygen, pH, alkalinity, volatile solids, and SOUR testing during digest	tion
	X Wastewater treatment facility staff will periodically observe loading operation conditions of biosolids	s to check odor
3)	Identify methods used to identify and abate malodor after delivery to a land site (before land application):	d application
	☐ The land application contractor's personnel will perform a visual as well as odd biosolids delivered to the land application sites. They will determine if any of t loads arriving on-site appear to be more odorous and darker in color than usu	
	the biosolids is present, the contractor will confer with wastewater treatment can remove the biosolids and return those loads to the wastewater treatment further treatment or transport to a landfill	al. If malodor of plant staff and
	the biosolids is present, the contractor will confer with wastewater treatment can remove the biosolids and return those loads to the wastewater treatment	al. If malodor of plant staff and
	the biosolids is present, the contractor will confer with wastewater treatment can remove the biosolids and return those loads to the wastewater treatment further treatment or transport to a landfill	al. If malodor of plant staff and
	the biosolids is present, the contractor will confer with wastewater treatment can remove the biosolids and return those loads to the wastewater treatment further treatment or transport to a landfill X Confer with land applicator and utilize a remote land application site	al. If malodor of plant staff and plant for
4)	the biosolids is present, the contractor will confer with wastewater treatment can remove the biosolids and return those loads to the wastewater treatment further treatment or transport to a landfill X Confer with land applicator and utilize a remote land application site Check pH levels on suspect lime stabilized biosolids X Contract land applicator (emergency disposal) will use methods identified in land	al. If malodor of plant staff and plant for
4)	the biosolids is present, the contractor will confer with wastewater treatment can remove the biosolids and return those loads to the wastewater treatment further treatment or transport to a landfill X Confer with land applicator and utilize a remote land application site Check pH levels on suspect lime stabilized biosolids X Contract land applicator (emergency disposal) will use methods identified in la odor control plan	al. If malodor of plant staff and plant for
4)	the biosolids is present, the contractor will confer with wastewater treatment can remove the biosolids and return those loads to the wastewater treatment further treatment or transport to a landfill X Confer with land applicator and utilize a remote land application site Check pH levels on suspect lime stabilized biosolids X Contract land applicator (emergency disposal) will use methods identified in la odor control plan Identify methods used to abate malodor after land application: X Incorporate biosolids into the soil	al. If malodor of plant staff and plant for

Odor Control Plan – Land Applier

Fac	cility	ty Name: Lexington-Rockbridge Regional WQCF	VPDES/NPDES Permit Number:
Ad	dre:	ess: 135 Bob Akins Circle	VA 0088161
Cit	y St	tate: <u>Lexington, VA</u>	
		act Name: Fred Schultz	
		e Number: <u>5404635936</u>	
Em	iail a	address: fschultz@lexingto.va.gov	
		odor" means an unusually strong or offensive odor associated guished from odors commonly associated with biosolids or sev	
1)		entify methods to identify malodor after delivery to a land a oply):	pplication site (check all that
	X	Comparison of odors from each truck load to identify loads vodor	with unusually strong or offensive
		pH analysis	
٠		Odor measurement device (e.g. Nasal Ranger)	
	X	Other: Since LRRWQCF is generator, it is believed that unusual detected before transport, while loading truck.	ually offensive odor would be
2)	lde	entify methods to abate malodor after delivery to a land app	lication site (check all that apply):
		Removal to a landfill	
	X	Transport to a more secluded site	
		Odor measurement device (e.g. Nasal Ranger)	
	X	Other: Return to plant for discharge to head of plant for furt	ther processing
3)	lde	entify methods to abate malodor after biosolids are land app	olied:
	X	Incorporation	
	X	Other: application of lime	

4) Identify procedures for reporting odor complaints or determination of malodor to the generator: (Refer to contacts on Generator OCP, any agreements you have with generators regarding handling of odor complaints, etc.)

LRRWQCF is both generator and land applier.

- X Contact information for reporting odor or any other complaint is provided on signs posted at the land application, including the phone numbers for the wastewater treatment plant and the Departmental of Environmental Quality.
- X Truck drivers document all complaints on daily logs and pass information onto plant personnel.
- X All complaints are promptly investigated and documented on the monthly biosolids activity reports.
- X Any unresolved complaints are referred to DEQ.
- X It is realized that odor is a critical issue in the public perception and acceptance of biosolids. The following strategies are used to minimize the impact of nuisance odors from the land application of biosolids and to improve public relations with adjacent landowners.
 - Land application may be limited during times when outdoor activities are planned upon request from adjacent landowners
 - Factors such as wind, humidity, and time of day are considered when applying biosolids with more offensive odors.
 - When possible, biosolids that have been stored during the winter are applied on more remote sites.

Biosolids Log - VA 0088161 - Rockbridge County - Aerobically Digested Biosolids

Month		_Year		-			Truck <u>#</u>			Gallons				
Day	Site#	 	-	T <u>ime</u> L	oad A	pplied	(Full	unless	noted	j)		Driver	CLA	Comments
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Site #		Gallo	ns Rer	naining)				Date					
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Site #		Galloi	ns Ker	naining					Date					
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														Land Applicator in change exceptions:
														
Certifi	ed Lar	nd App	licato	•			Certifi	cate #		- 1	Date	··········		

Attachment to Part D II Item 11d.

Rockbridge County Year _ Month Truck # Gallons Time Load Applied (Full unless noted) Day Site# Driver CLA Record any complaints, unusual events (odor, spills), inspectors or visitors to site, site # , (Site # Gallons Remaining Site # Gallons Remaining Date Gallons Remaining Date I confirm that I was onsite at the reported times of operations for which I was the Certified All land application activities were in compliance with Permit VA0088161 with the followir Certificate # Certified Land Applicator

Certified Land Applier's Operator Field Log - VA0088161 - Aerobicall

lly Digested Biosolid

Comments
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d Land Applicator in charge. ng exceptions:

Site List - Acres October 2009

	Gross	Net			
Number	Acres	Acres	DSM	Owner/Contact	deleted
91	5.2	5	1017	Hartwell/Clark	
	7.6	7.5	1017 -	Hartwell/Clark	
104	13	11	1019	Baisley	
- 105	13	. 11	1019	Baisley	
121	18	15	1024	Hostetter	
123	7	5	1024	Hostetter	
124	8	5	1024	Hostetter	
149	4.5	3.9	1031	Beverly	
150	6.5	6.2	1031	Beverly	
151	6	5	1031	Beverly	٠. ا
152	14.5	14	1031	Beverly	
153	15	12	1031	Beverly	
. 165	6.5	6.5	1035	Cranston/Sorrells	
166	3.4	2.5	1035	Cranston/Sorrells	
171	50	38.5	1037	Showalter	
172	16	16	1037	Showalter	
173	1.0	8	1037	Showalter	
175	5.5	5.1	1039	Bryant	
176	8	4.7	1039	Bryant	
177	8.8	7.7	1040	Flint	



County of Rockbridge

Solid Waste & Transportation

150 South Main Street Lexington, Virginia 24450 Rockbridge County Board Members

JOHN M. HIGGINS

RUSSELL S. FORD

DAVID W. HINTY, JR.

RONNIE R. CAMPBELL

ALBERT W. LEWIS, JR.

JEREMY S. GARRETT Director of Solid Waste & Transportation Office: (540) 463-1462 Fax (540) 463-5981

jeremy_garrett@co.rockbridge.va.us

June 23, 2014

Lexington-Rockbridge Regional WQCF, VA 0088161 Attn: Joan Biggs 135 Bob Akins Circle Lexington, VA 24450

Ms. Biggs:

Sincerely.

In response to the June 4th request received from the Lexington-Rockbridge Regional WQCF, the Rockbridge County Landfill, Permit No.075 would be able to accept sludge from the Lexington-Rockbridge Regional Water Quality Control Facility (LRRWQCF) on an emergency basis. All future sludge must meet the paint filter test (no free liquids) and any other Federal, State, or Local solid waste requirements at the time of disposal. The tonnage accepted would be based on the specific ratio of waste to sludge allowed by Virginia Department of Environmental Quality at the time of disposal.

Jeremy S. Garrett
Director of Solid Waste and Transportation

DEQ VALLEY

JUL 2 5 2014

To:_____

cc: Spencer Suter, County Administrator
Lynn Klappich, Draper Aden Associates
Jerry Higgins, Executive Director – Maury Service Authority



July 11, 2014

Mr. Tim Grove Houff's Feed & Fertilizer 97 Railside Drive Weyers Cave, VA 24486

Re: NANI - Lexington Rockbridge Regional WQCF - Land Application of Biosolids

Tim,

Since our biosolids may be land applied under your VPA Permits, I have attached the results from our most recent sludge analyses. These analyses were conducted during May and June 2014.

In the event that we would use your services, we would provide you with the most current information at that time. Please let us know if you need additional information.

Yours truly,

Jøan H. Biggs Lab Specialist

Notice and Necessary Information

Lexington-Rockbridge Regional Water Quality Control Facility

Pollutant Concentrations

			ng ang ing manakan kabupatèn kabupa
Constituent	LRRWQCF Concentration Dry Weight (mg/kg) 5/6/2013	Pollutant Concentrations (Table 3. 40 CFR 503.13) Monthly Average (mg/kg)	Ceiling Concentrations * (Table 1. 40 CFR 503.13) Daily Maximum (mg/kg)
Arsenic	3.0	41	75
Cadmium	2.0	39	85
Copper	353	1500	4300
Lead	23	300	840
Mercury	<.4	17	57
Molybdenum	5	NA.	75
Nickel	30	420	420
Selenium	<5.0	100	100
Zinc	640	2800	7500
TKN	17700	, NA	NA
Ammonium Nitrogen	11800	NA	NA NA
Nitrate Nitrogen	28.4	NA NA	NA
Total Phosphorus	35700	NA NA	NA
Total Potassium	4900	NA NA	NA NA

^{*} Biosolids may not be applied if pollutant exceeds these values

Pathogen Reduction Requirements 9 VAC 25-31-710.B: Class B Biosolids <1000cfu/g ts

(5/20-6/16/2014)

Vector Attraction Reduction Requirements 9 VAC 25-31-720.B: Option 4 1.3 mgO2/hr/g ts

(5/6, 5/7/2014)

PCBs (SW8082): ND (<2.05 mg/Kg) 6/2/2014

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Date Signed

Richard L. Allen, Director

Utilities Processing Department r

City of Lexington

Phone: 1-540-463-3566

JUL 2 5 2014

To:	
Date:	



Improving the environment, one client at a time...

3029-C Peters Creek Road Roanoke, VA 24019 TEL: 540.777.1276 101 17th Street Ashland, KY 41101 TEL: 606.393.5027 1557 Commerce Road, Suite 201 Verona, VA 24482

TEL: 540.248.0183

REI Consultants, Inc. PO Box 286 Beaver, WV 25813 TEL: 304.255.2500 Website: www.reiclabs.com

16 Commerce Drive Westover, WV 26501 TEL: 304.241.5861

Thursday, June 05, 2014

Ms. Joan Biggs LEXINGTON-ROCKBRIDGE RWQCF 135 BOB ATKINS CIRCLE LEXINGTON, VA 24450

TEL: (540) 463-5936 FAX: (540) 463-6707

RE: MUNICIPAL SLUDGE Work Order #: 1406115 Dear Ms. Joan Biggs:

Cetty Berry

REI Consultants, Inc. received 1 sample(s) on 6/2/2014 for the analyses presented in the following report. Sincerely,

Kathy Berry



REI Consultants, Inc. - Case Narrative

WO#: 1406115

Date Reported: 6/5/2014

Client:

LEXINGTON-ROCKBRIDGE RWQCF

Project:

MUNICIPAL SLUDGE

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP (and/or VELAP) requirements for parameters except as noted in this report.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by REIC Service Centers are designated by an annotation on the test code. All other tests were performed by REIC's Main Laboratory in Beaver, WV.

This report may not be reproduced, except in full, without the written approval of REIC.

DEFINITIONS:

MCL: Maximum Contaminant Level

MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

Mg/Kg or mg/L; Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).

NA: Not Applicable

ND: Not Detected at the PQL or MDL

PQL: Practical Quantitation Limit, The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.

Qual: Qualifier that applies to the analyte reported.

TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.

Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:

- X: Reported value exceeds required MCL
- B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL
- E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be consider estimated.
- H: Holding time for preparation or analysis has been exceeded.
- J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.
- S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:

Beaver, WV: WVDHRR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, TNDEQ TN02926, NCDWQ 466, PADEP 68-00839, VADCLS (VELAP) 460148

Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460148, PADEP 68-00839

Roanoke, VA: VADCLS(VELAP) 460150 Verona, VA: VADCLS(VELAP) 460151 Ashland, KY: KYDEP 00094, WVDEP 389

Morgantown, WV: WVDHHR 003112M, WVDEP 387

REI Consultants, Inc. - Analytical Report

WO#:

1406115

Date Reported:

6/5/2014

Client: Project: LEXINGTON-ROCKBRIDGE RWQCF

MUNICIPAL SLUDGE

Lab ID:

1406115-01A

Client Sample ID:

SLUDGE STORAGE TANK

Collection Date:

6/2/2014 9:50:00 AM

Date Received:

6/2/2014

Matrix:

Solid

Site ID:

Analysis	Result	PQL	MCL	Qual	Units	PrepDate	Date Analyzed
PERCENT MOISTURE		Metho 1997	od: SM	2540 B	<u> </u>		Analyst: KR
Percent Moisture	.96	0 .50	NA		wt%		6/4/2014 4:07 PM
PCBS		Metho (2/07)	od: SW	8082A	S	SW3550B	Analyst: NC
Aroclor 1016	ND	0.0167	NA		mg/Kg	6/3/2014 1:20 PM	6/3/2014 7:13 PM
Aroclor 1221	NĎ	0.0167	NA		mg/Kg	6/3/2014 1:20 PM	6/3/2014 7:13 PM
Aroclor 1232	ND	0.0167	NA		mg/Kg	6/3/2014 1:20 PM	6/3/2014 7:13 PM
Aroclor 1242	ŅĎ	0.0167	NA		mg/Kg	6/3/2014 1:20 PM	6/3/2014 7:13 PM
Arocior 1248	ND	0.0167	NA		mg/Kg	6/3/2014 1:20 PM	6/3/2014 7:13 PM
Aroclor 1254	Ӥ́D	0.0167	NA		mg/Kg	6/3/2014 1:20 PM	6/3/2014 7:13 PM
Aroclor 1260	ND	0.0167	NA		mg/Kg	6/3/2014 1:20 PM	6/3/2014 7:13 PM
Surri Tetrachloro-m-xylene	81.3	32.8-150	· NA		%REC	6/3/2014 1:20 PM	6/3/2014 7:13 PM

Notes:

Matrix spike exceeds REIC control limits.

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A&L Eastern Laboratories, Inc.

PRESIDENCE FOR HOLD FOREST HOLD TEST SINGER MINISTER POR PORT PROSPER FOR

6/6/2014

CITY OF LEXINGTON VA JOAN BIGGS WASTEWATER PLANT 135 BOB AKINS CIR LEXINGTON, VA, 24450

Ref:

Analytical Testing

Report Number: 14-154-0213

Project Description: CITY OF LEXINGTON/PCB'S(55340)

Dear JOAN BIGGS:

A&L Eastern Laboratories received sample(s) on 6/3/2014 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

The EPA requires that water samples analyzed for pH, dissolved oxygen and total residual chlorine be analyzed in the field. Analyses and results reported which do not indicate "Field" for these parameters were analyzed outside the holding time as specified in Table II of 40 CFR Part 136.3.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the USEPA and NELAP.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Paris somy

Pauric McGroary Agronomist

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40750 Louisiana #04015 Florida #E87943 California #05240CA Arkansas #88-0650 Mississippi Pennsylvania #68-3195 Texas #T104704180-05-TX #9311 #S-46279 #200015 Oklahoma USDA Illinois #90047 Tennessee #02027 **EPA** #TN00012 Kentucky Kentucky UST #41 Virginia #00106 NELAP #100456







Sample Summary Table

Report Number:

14-154-0213

Client Project Description:

CITY OF LEXINGTON/PCB'S(55340)

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
55727	CITY OF LEXINGTON #1	Solids	06/02/2014 09:50	06/03/2014	8082	ETC
55727	CITY OF LEXINGTON #1	Solids	06/02/2014 09:50	06/03/2014	SM-2540G	ETC

ETC: Environmental Testing and Consulting, Inc., Memphis, TN, Certification: #1354



Eastern Laboratories

70712

CITY OF LEXINGTON VA

JOAN BIGGS

WASTEWATER PLANT 135 BOB AKINS CIR LEXINGTON, VA 24450

Submitted By: JOAN BIGGS Report Number: 14-154-0213 JOAN BIGGS

REPORT OF ANALYSIS

Project

CITY OF LEXINGTON/PCB'S(55340)

Information:

Report Date: 06/06/2014

Received: 6/3/2014

Pauric McGroary Agronomist

Lab No:

55727

Sample ID : CITY OF LEXINGTON #1

Matrix: Solids

Sampled: 6/2/2014 9:50

Total Solids

4.42

0.010

1 06/05/14 08:41 ALP

SM-2540G

Moisture

95.6

0.100

1 06/05/14 08:41 ALP

SM-2540G

Analytical Method:

8082

Prep Method: 3546	F	rep Batch(es):	L201187	Date/T	ime Prepped:	6/4/201	4 13:30:00
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Batch
Arodor 1016	<2.05	mg/Kg - dry	2.05	1	06/04/14 17:45	VIC	L201301
Arodor 1221	<2.05	mg/Kg - dry	2.05	1	06/04/14 17:45	VIC	L201301
Aroclor 1232	<2.05	mg/Kg - dry	2.05	1	06/04/14 17:45	VIC	L201301
Arodor 1242	<2.05	mg/Kg - dry	2.05	1	06/04/14 17:45	VIC	L201301
Arodor 1248	<2,05	mg/Kg - dry	2.05	1	06/04/14 17:45	VIC	L201301
Arodor 1254	<2.05	mg/Kg - dry	2.05	1	06/04/14 17:45	VIC	L201301
Arodor 1260	<2.05	mg/Kg - dry	2.05	1	06/04/14 17:45	VIC	L201301
Surrogate: Decachlorobiphenyl		42.6	Limits: 25-1259	%	1 06/04/14 17:	45 VIC	L20130
Surrogate: Tetrachloro-m-xylene		53.3	Limits: 25-1259	%	1 06/04/14 17:	45 VIC	L20130

Qualiflers/
Definitions

Outside QC limit

*

- С GCMS Confirmation Analysis
- g GGA outside QC limits
- J Estimated Value
- NA Not on Scope of Accreditation Q Surrogate Recovery
- Unconfirmed

- В Analyte detected in blank
- E Exceeds calibration range
- Н Beyond holding time M Minimum value
- NC Not confirmed T Sample exhibits toxicity

A		7621 Whitep	SAMPL ine Road Richmor	d ya 23297	A&L	East -743-940	ony of L					(4-154-02 70712 05-03-201 13:06:44	4 Copy		The state of the s		Agrount 1001	#
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	Only)	Type	Date	filme	Number of Bottles	Type	Volume	81	SC2	50a Motabe	TOLOGUE Sunto	шН	DCE,	Ag	ä	Solida	Others	ئيد
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Rush

Page 1 of 1

Brandi Watson - City of Lexington WWTP CN 70712

From:

Randy Thomas

To:

_ទៅទូ_នភ

Brandi Watson; Kathy Scott

Date:

6/2/2014 11:10 AM

Subject: City of Ledngton WWTP CN 70712

CC:

Mike

CITY OF LEXINGTON VA

14-154-0213 70712 08-03-2014 13:06:44

Kathy,

The City of Ledington is sending in a netest sludge sample for PCB analysis. The sample is rush and it will be no charge due to laboratory contamination on the previous sample. The sample will need to be reported on a dry

Thanks

Randy Thomas

Showman, Keith (DEQ) From: joan biggs [jbiggs46@yahoo.com] Sent: Friday, May 30, 2014 2:07 PM To: Showman, Keith (DEQ); Carver, Beverley (DEQ) Fred Schultz Cc: Fw: Sample #55340 PCB Analysis Subject: Joan Biggs Lab Specialist Lexington-Rockbridge Regional WQCF, VA 0088161 135 Bob Akins Circle Lexington, VA 24450 Phone: 540-463-5936 (2) --- On Fri, 5/30/14, Randy Thomas <rthomas@etcmemphis.com> wrote: > From: Randy Thomas <rthomas@etcmemphis.com> > Subject: Sample #55340 PCB Analysis > To: "joan biggs" <jbiggs46@yahoo.com> > Date: Friday, May 30, 2014, 2:04 PM > > > Ms. Biggs, > After review of the raw data and batch QC, we feel that the result > reported for sample #55340is was in error. > It is believed that the positive result reported was due to carryover > from a sample analyzed prior to 55340, that contained percent levels > of Aroclor 1242. Sample 55340 was re-extracted (outside the 14 day > holding time) and re-analyzed. The re-analysis did not indicate any > PCBs to be present in the sample. > If this sample can be re-sampled, the laboratory will analyze the > replacement on a rush basis, at no charge. > Sorry for the inconvenience. Please let me know if I need to do > anything esle.

> Thank you.

> Randy Thomas > 901-213-2429



A&L Eastern Laboratories, Inc.

7621 Matter Peop Richmond, Vernit 77217 (1741 748 840) Par (1741 271 6445

5/28/2014

CITY OF LEXINGTON VA JOAN BIGGS WASTEWATER PLANT 135 BOB AKINS CIR LEXINGTON, VA, 24450

Refa

Analytical Testing

Report Number: 14-133-0214

Project Description: CITY OF LEXINGTON/PCB'S

Dear JOAN BIGGS:

A&L Eastern Laboratories received sample(s) on 5/13/2014 for the analyses presented in the following report,

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and /or 40 CFR part 136.

The EPA requires that water samples analyzed for pH, dissolved oxygen and total residual chlorine be analyzed in the field. Analyses and results reported which do not indicate "Field" for these parameters were analyzed outside the holding time as specified in Table II of 40 CFR Part 136.3.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration were performed in accordance with guidelines established by the USEPA and NELAP.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely.

Paris or surprise

Pauric McGroary Agronomist

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40750 Louisiana #04015 Florida #E87943 California #05240CA Arkansas Mississippi #T104704180-05-TX #88_0650 #68-3195 Pennsylvania Texas Illinois #200015 Oklahoma #9311 USDA #S-46279 Kentucky #90047 Tennessee #02027 EPA #TN00012 Kentucky UST Virginia #00106 NELAP #100456







Sample Summary Table

Report Number:

14-133-0214

Client Project Description:

CITY OF LEXINGTON/PCB'S

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
55340	#2	Solids	05/12/2014 07:08	05/13/2014	8082	ETC:
55340	#2	Solids	05/12/2014 07:08	05/13/2014	SM-2540G	ALE

ALE: A&L Eastern Laboratories, Certification: 460014

ETC: Environmental Testing and Consulting, Inc., Memphis, TN, Certification: #1354



Eastern Laboratories 7621 Whitepine Road Richmond, Virginia 23237 (804) 743-8401 Fex (804) 271-8446

70712

CITY OF LEXINGTON VA

JOAN BIGGS

WASTEWATER PLANT 135 BOB AKINS CIR LEXINGTON, VA 24450

Submitted By: JOAN BIGGS Report Number: 14-133-0214 JOAN BIGGS

REPORT OF ANALYSIS

Project

CITY OF LEXINGTON/PCB'S

Information:

Report Date: 05/28/2014

Received: 5/13/2014

Pauric McGroary Agronomist

Lab No:

55340

Sample ID: #2

Matrix: Solids

Sampled: 5/12/2014 7:08

Total Solids 4.23 1 JRF SM-2540G Moisture 95.77 SM-2540G

Analytical Method: 8082

Prep Method: 3546	P	rep Batch(es):	L199438	Date/T	lme Prepped:	5/19/2014 09:00:00		
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Batch	
Arodor 1016	<2.04	mg/Kg - drý	2.04	1	05/19/14 18:12	VIC	L199631	
Arodor 1221	<2.04	mg/Kg - dry	2.04	1	05/19/14 18:12	VIC	L199631	
Arodor 1232	<2.04	mg/Kg - dry	2.04	1	05/19/14 18:12	VIC	L199631	
Arodor 1242	307	mg/Kg - dry	20.4	10	05/20/14 10:10	VIC	L199631	
Arodor 1248	<2.04	mg/Kg - dry	2.04	1	05/19/14 18:12	VIĆ	L199631	
Aroclor 1254	<2.04	mg/Kg - dry	2.04	1	05/19/14 18:12	VIC	L199631	
Arodor 1260	<2.04	mg/Kg - dry	2,04	1	05/19/14 18:12	VIC	L199631	
Surrogate: Decachlorobiphenyl		36.3	Limits: 25-1259	%	1 05/19/14 18:	12 VIC	L199631	
Surrogate: Tetrachloro-m-xylene		49.8	Limits: 25-1259	%	1 05/19/14 18:	12 VIĆ	L199631	

Qualifiers/	*	Outside QC limit	 В	Analyte detected in blank
Definitions	С	GCMS Confirmation Analysis	E	Exceeds callbration range
	g	GGA outside QC limits	Н	Beyond holding time
	j	Estimated Value	 M	Minimum value
	NA.	Not on Scope of Accreditation	NC	Not confirmed
	Q	Surrogate Recovery	T	Sample exhibits toxicity
	Ú	Unconfirmed		



A&L Eastern Laboratories

05/13/2014 13:14:35

Export Batch Report

Export Batch 1d:

769EXP

Created: .5/13/2014 13:14:24 Computer: ALE-RECVING

User: Brandi Watson

From: A&L Eastern Laboratories

7621 Whitepine Rd. Richmond, VA 23237.

804-743-9401

To: Environmental Testing and Consulting, Inc. 2790 Whitten Road

2790 Whitten Road Memphis, TN 38133

-901-213-24005

Report No Sample Date Rush Lab No Method N

14-111-0214 05/12/2014-07:08

55340 SW-8082

Fee Code Description

Total Polychlorinated Bighenyts (PCBs)

CITY OF LEXINGTON VA

Sampled By	Methodial Shipment	Blank / Choler Temp.	
Remarks			
Relinquished By (sign)	Date / Time	Received By (sign)	Date/
Relimpuished By (sign).	Date / Time.	Received By (sligh)	Oate./
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SAMPLE TRANSMITTA

Account # CITY OF LEXINGTON VA CITY OF LEXINGTON/PCE'S 7621 Whitepine Road Richmond VA 23237 Tel: 804-743-9 Customerin Charge To_ Submitted By of Capy to Took Biggs John Rigg Project WYD Sample Information Sample LD Litt: Number Collection Information Container Information Please Check Desired Tests (Lab Use ST. Time. Number Othern: of Bollos Series (11)5-5 Composits 举儿 1332. 0708 Plostic Composite PCBs. ĬĨ. oint Plostic Composite e di OZ Gless plint Plasto Relinguished By: (Signature) Received By: (Signature) Date Time Test Package Details, oo open a 7 1/2) es es Special Instructions of Remarks SULT Total Solids (Moisturis) Total Kjeldahl Mirvigiri, Pripsphorus end Poisserum SULE Besical est SUL john Sulfur, Caletum, Mignisturi, Solding, Iron, Aluminum, Manusessa Copper And Zhio SOS Minute: Arsanto, Cadmium, Chromium, Marcury, Mohybdonum, Ledd, Nickel, Selanum, (Copper & Zins included in 8(2) plus copper + 2 inc Witrogen Series: Total Kinddahi, Ammonium, Nitrate & Organic Mirogen. CCE: Calcium Curbonate Equivalent or Total neutralization Value (For Lime Treated Studge) 13-127-02 00 lude Jana Parlameters as